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THE Fisherman

—THE LONG ISLAND, METROPOLITAN NEW YORK EDITION—

December 6th—12th, 1984
Volume 19, Number 49

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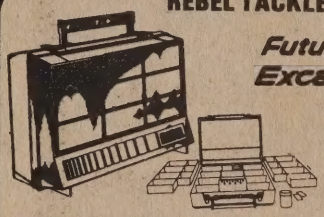

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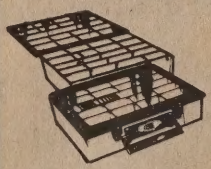

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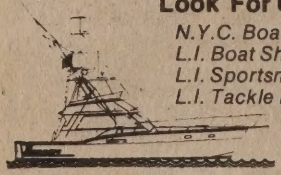

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L.I. Boat Show
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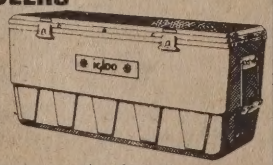

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Med. freshewater/Lt. salt has stern drag, left/right hand retrieve. 230 yds. 8lb. line capacity with matching **ALPHA 96% Graphite** 6'6" 2-pc. med. action rod. *Reg. 52.98*
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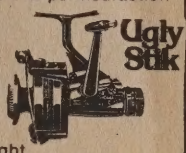

SIGMA GRAPHITE 2400-040
Reel has stern drag graphite construction. Right & left hand retrieve. 230 yds. 8lb. line capacity with matching **UGLY STIK** SP1100 6'6" 2-pc. med. action spinning rod. *Reg. $91.98*
Rod & Reel Combo
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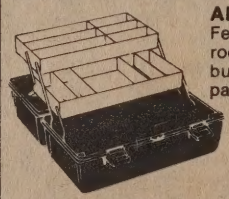

ADVENTURER 1822
Features 2 trays, 11 roomy compartments, built in trays, tip guard padlock tab, dual latches, *(saltwater)* 17⅞"x10¼"x8¾"
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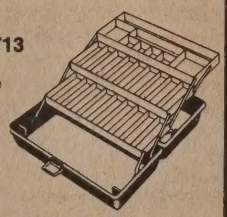

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Features 3 trays, 26 compartments, large storage below trays, worm proof *(freshwater)* 16½"x8¾"x7½"
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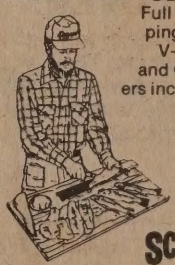

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THE Fisherman

—THE LONG ISLAND. METROPOLITAN NEW YORK EDITION—

Volume 19, Number 49 December 6th, 1984

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ABOUT THE COVER:

This big weakfish was the product of a recorder readout which marked fish feeding on a channel edge. The use of electronic gadgetry like computerized graph recorders and affordable Loran C receivers has revolutionized the fishing game. This week's "special issue" will help you to better understand those magic little boxes. Cover photo by Dick Mermon.

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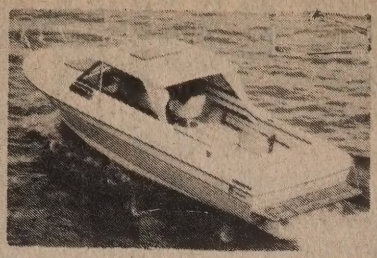

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ELECTRONICS BUYER'S GUIDE

LOWRANCE CHRISTMAS PROMOTION EXTENDED

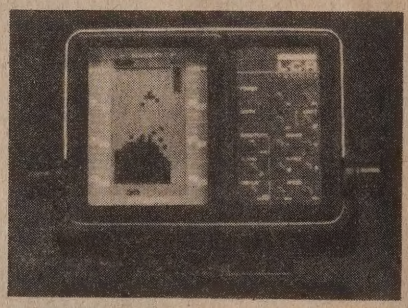
Lowrance Electronics of Tulsa, OK, has announced the extension of this year's Christmas promotions through June 30, 1985.

Consumers who purchase a Lowrance flasher during the promotion will receive free, a top quality Lew Childre and Sons graphite rod. Specially packaged System 2000 gimbal and portable models are included in the promotion and buyers will have their choice of a Lew's SG4-156 casting or spinning rod.

Lowrance graph buyers will receive 12 rolls of chart paper with the purchase of an X-15B computer sonar graph.

Lowrance is the world's largest manufacturer of sport fishing sonar.

HUMMINBIRD INTRODUCES THE LCR 2000



You don't have to be a computer whiz to operate Humminbird's new LCR 2000, but this unit's state-of-the-art, computer-controlled performance sure makes you feel like one! At the press of a button, you can stop, start, speed up or slow down the display. Press a button to change the depth range or to adjust the sensitivity—or let the microcomputer take care of those functions for you. The LCR 2000 even has an adjustable audible alarm to alert you to the presence of fish or underwater hazards.

These are a few of the features you'll find on the LCR 2000 model:

Four depth ranges (0-15', 0-30', 0-60', and 0-120').

Adjustable audible alarm; 200 watts of peak to peak power; automatic or manual sensitivity control; stop action to freeze the display; variable sweep speed control; STC (Sensitivity Time Control) to eliminate surface clutter; automatic digital noise rejection to screen out electrical interference; and 6" target separation.

And, like all LCR models, the LCR 2000 has a liquid crystal display, is completely waterproof, provides accurate readings at over 75 mph, and comes with a swivel mount. Take control, or sit back and watch—it's your choice with the new Humminbird LCR 2000.

For more info, write: Techsonic Industries, Inc., One Humminbird Lane, Eufaula, AL 36027.

REGENCY'S NEW ELECTRONIC CHART RECORDER

Regency Electronics, Inc., announces a new addition to its Polaris line of marine electronics: the CR500 electronic chart recorder.

The CR5000 employs a specially designed transducer (included) that can be mounted either transom or through-the-hull. The transducer feeds depth information to the main unit where it is recorded on an easily removable chart paper cassette. Chart speed and recording range are selectable through a front panel control. Fully adjustable sensitivity control allows the user to set the overall gain for proper readings at different depths.

Additional features include calibrated range scale marker control to mark chart reference point, noise reject switch, chart light, white line switch and adjustable angle mounting bracket.

Suggested retail for the Polaris CR5000 has been set at $399. For more information, contact Regency Electronics, 7707 Records St., Indianapolis, IN 46226; 317-545-4281.

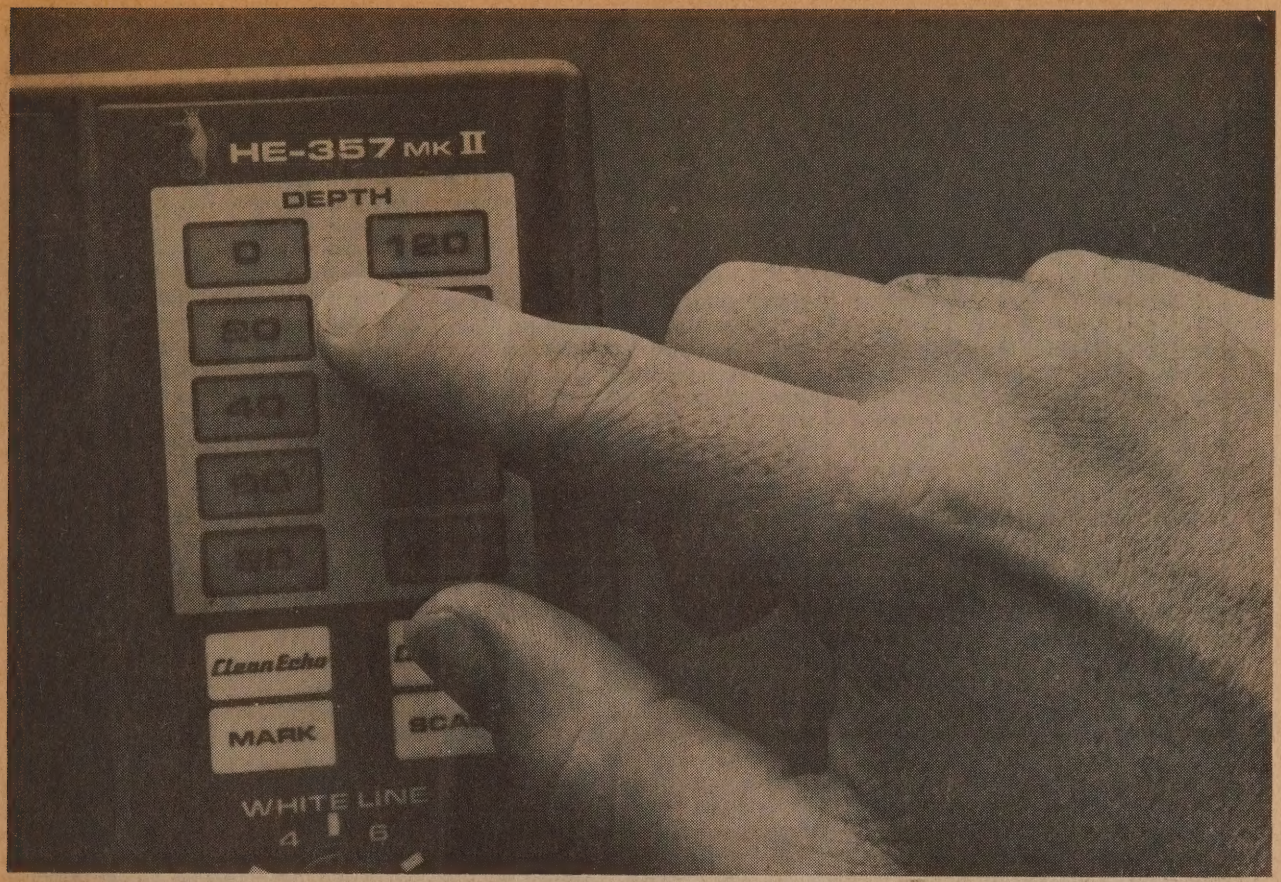
SCHEBENDACH LAUNCHES PORT MARINE ELECTRONICS FOR METRO NYC AREA

One of the best-known marine electronics experts in the Metro New York area over the past three decades, John R. Schebendach, has launched his new company, Port Marine Electronics at 86 Orchard Beach Blvd., Manorhaven, Long Island, NY, to serve complete electronics requirements for recreational and commercial marine customers.

A service-oriented dealership with a full range of electronics for power and sail vessels, Port Marine offers complete sales, service and installation with fast turnaround on service and repairs, Schebendach said. The telephone is (516) 944-6900.

Port Marine will provide service in its shop and in the field aboard boats with helicopter transport for its service technicians available when the customer requires it.

Schebendach has been active in



SELECTING YOUR DEPTH IS NOW TOUCHINGLY SIMPLE.

SI-TEX brings you two new computerized, cassette-loaded recorders with simple, "user friendly" depth-selector keyboards.

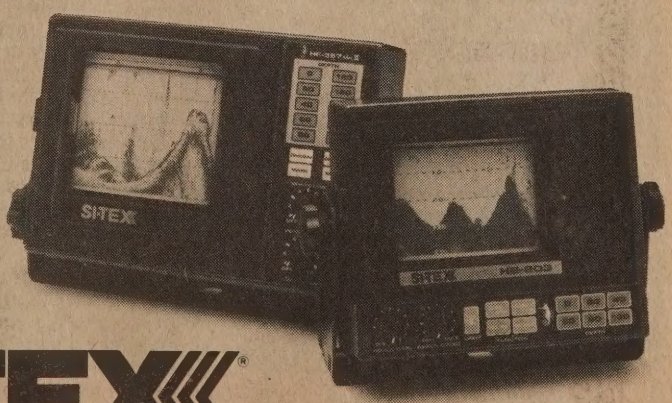
The miniaturized HE-203 offers fishfinding features normally found in bigger, costlier recorders. Such as scale expansion that zooms into specific target areas like 20-40' or 40-60', all the way down to 120'—with touch-key simplicity. Wide 18° cone angle view of down below with clean-line or gray-line printing. And three-inch paper.

About the size of an average flasher, the HE-203's slim, trim case is perfect for installation in tight little places where chart recorders normally won't fit.

The HE-357 MK II MAGNUM looks at things considerably deeper, with selectable ranges down to 400'. Scale expansion is touch-key simple. For example, when you want 20-40', just touch those two keys and you've got it. Grid lines and depth scales can be added or removed from printout by a simple touch of a key. Operating frequency of 107 kHz gives you a wide 18° cone angle.

If you're not high on scale expansion, we also offer the lower cost, basic HE-357 with five depth ranges down to 300'. Ranging is by conventional selector switch. Both 357's include three printing modes, Clean Echo anti-interference circuitry, four-inch paper plus variable speed and gain controls.

For more information write for our colorful, free brochure, P.O. Box 6700, Clearwater, FL 33518.



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the marine electronics business for more than 30 years, first as service manager of Sommer Marine Electronics in Port Washington and then Griffith Marine Electronics, New Rochelle, NY, for a total of 24 years. He was Griffith's sales manager for the past six years. A member of the New York Marine Trades Association, he resides in Garden City Park, Long Island.

NEW SI-TEX MINIATURIZED CHART RECORDER FEATURES COMPUTER KEYBOARD OPERATION

Efficient electronic miniaturization comes to the world of the weekend fisherman in the form of the Si-Tex HE-203. A microprocessor controlled chart recorder designed to maximize the available space in your boat. About the size of an average flasher, its slim, trim case is well suited for installation in those tight little places where you could never put a chart recorder before.

The recorder has five standard depth ranges from 0-20' down to 0-120'. Keyboard-selectable scale expansion lets you zoom into specific target areas such as: 20-40', 40-60', 60-80', etc. Two different pulse lengths are controlled automatically by fingertip range selection. Grid lines and depth scales are printed directly on chart and can be removed or added as desired.

Operating at the frequency of 107kHz, the transducer cone angle is a wide 18 degrees at the -3dB level for a wide area view beneath your boat. A two-level "Clean Echo" correlator blocks out interference from other sounders operating on your boat or in the same general area.

Other features include: Conventional straight-line or clean-line printing, paper cassette loading, variable gain control, variably controlled paper speed, event marker and chart light.

For more information, write Si-Tex Marine Electronics, Inc., P.O. Box 6700, Clearwater, FL 33518.

CAPREE CADET, A PORTABLE DEPTHSOUNDER WITH INTERNAL BATTERY POWER

The Capree Cadet Depthsounder can help protect even the smallest fishing or family-fun boat from the bent props, damaged hulls and passenger injuries that can result from sudden groundings.

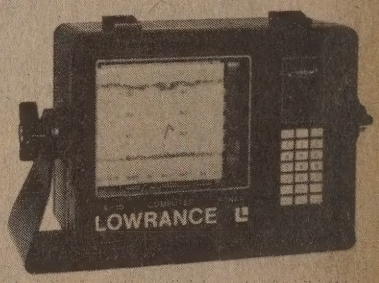
The digital Cadet Depthsounder precisely measures depths between 2 and 99 feet, with depths less than 10 feet measured in fractions. Yet is is compact and portable enough to go home in a tackle box. A tiny 9-volt battery powers the Cadet for an average 175 hours, so it can be used on boats without a battery of their own.

The Cadet's sophisticated solid state circuitry filters out interference caused by wake, debris or weeds, while its automatic gain compensates for variations in water depth and bottom conditions. The low-drain liquid crystal digital display is easy to read, and the numbers actually increase in contrast as the sun grows brighter.

The Cadet Depthsounder can be bracket mounted singly (yoke included), or on top of a Cadet Speedo (tandem bracket optional). It is sold with an SX128 transducer that can be easily mounted on the transom with a supplied bracket. For through-hull installations two options are available: the flush-mounted DX129 high speed transducer and the tiny DX 186, which can be installed through a pencil-size hole.

Captree digitals are built by Datamarine, a company whose quality standards have made it a world leader in marine electronics.

LOWRANCES ANNOUNCES X-16 COMPUTER GRAPH



Two years ago, the world of sport fishing sonar changed dramatically with the introduction of the now-famous X-15 Computer Sonar graph by Lowrance Electronics of Tulsa, OK.

It was truly a revolutionary instrument, capturing the minds, hearts and souls of fishermen, boaters and underwater search and rescue experts throughout the world.

Many classed it as the "ultimate" sonar unit.

However, Lowrance last year produced the X-15A, and now has the X-15B, both advancements of the X-15, with several new features provided by their microprocessors.

Now, Lowrance has another breakthough. It is the X-16, a sophisticated yet simple computer graph with features never before dreamed in the sonar world.

For instance, the X-15 series graphs measure to depths of 2490 feet in 10-foot segments. The new X-16 will measure in one-foot segments, and with special transducers has depth capability of 8000 feet. That means that it has the possibility of no less than *32 million* range settings.

In addition, the X-16 incorporates a memory system which recalls the same settings and functions last programmed before being turned off.

The X-16 also will record Loran C navigational settings, printing coordinates on the chart paper upon command. It will interface with forthcoming Lowrance Loran C units. Loran C signals, now found throughout the world, provide for the exact location of any given point on land or water, or in the air, through a small navigational instrument.

CASH·BACK ·BIRDS·

Buy one of these Humminbirds, get a cash rebate of $10.

Buy any of the following Humminbird flashers at retail between February 15, 1984 and April 15, 1984 and, with proof of purchase, receive a $10 rebate:

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Humminbird Super Thirty II
Humminbird Super One-Twenty
Humminbird Super Three-Sixty
Humminbird Birdtrap with Super Sixty*

*Rebate may be received for Birdtrap/Super Sixty set **ONLY**, or for Super Sixty **ONLY**. **BOTH** rebates may not be claimed.

To get your rebate, pick up a rebate coupon at your local dealer. Or, for more information, write Techsonic Industries, Inc., One Humminbird Lane, Eufaula, AL 36027, or call us toll free at 1-800-633-1468.

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Datamarine Capri-SL Regularly $250.00 ..... $129.95

Cybernet VHF Regularly $229.00 ..... $139.95

50 Channel Regency Polaris VHF Reg. $250.00 ..... $149.95

Deluxe Seawater Temp. Gauge Reg. $259.00 $110.00

Rudder Indicator Reg $70.00 $39.95

New Si-Tex Depth Finder Regularly $150.00 ..... $99.95

New Lowrance Depth Finder Computergraph w/Transducer Reg $699.00 $449.00

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106 Woodcleft Ave., Freeport, N.Y. 11520

(516) 623-8942

The X-16 will not replace the X-15B in the company's line. It will, because of its intricate computer system, be higher priced. In addition to all the new features, others found in the X-15 series will be retained—the ability to measure in feet, fathoms and meters; adjustable pulse width settings for greater definition in various depth ranges; a new easy-load tilt-out paper drive system; and Lowrance's patented Grayline feature which discriminates between true bottom and objects on the bottom such as rocks, brush, trees, fish and shipwrecks.

Like all Lowrance sonar units, it can be operated at speeds of 75 miles an hour or more; has a lighted display for night use, and gold plated contacts. When soaked with rain or salt spray, it can be hosed off with freshwater without fear of damage or injury to vital electronics parts.

Contact the Public Relations Department, Lowrance Electronics, Inc., 1200 East Skelly Drive, Tulsa, OA 74128, for more information on the X-16 and other Lowrance products.

MODEL 760 "BOOKSIZE," FULL FUNCTION LORAN C RECEIVER FROM SI-TEX

The Model 760 is the newest "booksize" full function Loran C receiver introduced by Si-Tex. The dual automatic receiver accurately displays your present position in time differences (TDs) or latitude and longitude coordinates. Additional secondary phase factors (ASF) and magnetic compass variation corrections (for heading and bearing) can be manually entered for even greater accuracy. Power requirement is any 12-38 VDC system.

Some of the outstanding features include: a built-in ComPuNav course computer, alternating displays of course navigation data, 50 waypoints and eight instant-position memories, automatic waypoint sequencing for up to eight waypoints, "Always on" memory, four levels of speed averaging and three automatic notch filters with a fourth built-in and pre-set.

ComPuNav course computer programming can be accomplished in either TD or Lat/Lon mode. In Lat/Lon mode the receiver will display your bearing to waypoint in degrees, your cross track error in hundredths of a mile, distance to go in nautical miles, vessel's heading in degrees, time to go in hours and minutes and speed made good in knots.

Three automatic notch filters can be tuned to any frequency up to 255 kHz by keyboard entry. A fourth filter is pre-set for known interference.

Output is provided for remote display, autopilot, track plotter and satnav.

For more information write Si-Tex Marine Electronics, Inc., P.O. Box 6700, Clearwater, FL 33518.

NEW NORTHSTAR 800X FROM DIGITAL MARINE

Recently introduced is a versatile addition to Digital Marine's respected line of Northstar Loran C receivers: the new Northstar 800X. This newest Northstar navigation system consists of a waterproof control head which can be flush, surface, or yoke mounted in an exposed location such as a cockpit, center console, flying bridge, etc., while the processor unit is safely mounted out of the way in a nearby protected place!

Over 200 plain English messages help guide you through all navigation functions including Speed Over Ground (SOG), Course Over Ground (COG), storing up to 120 waypoints, bearing and distance to waypoints, estimated time of arrival and following your stored routes forward or back. You may display your position in either Loran C TDs, "Phantom Loran A" or Latitude/Longitude.

The easy to use 800X contains automatic calculation of magnetic variation, operates on 12 volts DC and provides the discriminating boater with a truly impressive variety of interface applications. Like the Northstar 800, the 800X provides NMEA 0180, 0182 and 0183 and Furuno GPIF data formats for interfacing directly to autopilots and selected sailing instruments and plotters—all at an affordable price!

The suggested retail price of the Northstar 800X is $2495, plus mounting kit. For further information by mail on the 800X, just call toll free 1-800-325-DMEC, any time.

CASH-BACK 'BIRDS FOR CHRISTMAS

Humminbird announces that, by popular demand, their Cash-Back 'Birds rebate offer is being brought back for the Christmas season. This proven incentive program is sure to, once again, put thousands of America's most popular depth sounders into the hands of happy fishermen and to make traffic and sales soar for participating dealers.

Between November 15, 1984 and December 31, 1984, customers buying any Humminbird flasher (Super Sixty, Super Thirty II, Super One-Twenty, Super Three-Sixty, Birdtrap with Super Sixty, or In-Dash) at retail will, with proof of purchase, receive a $10 rebate. Or, customers can get a $50 rebate on the Humminbird CH Thirty II chart according to the same terms.

Customers can obtain complete information on Humminbird's Cash-Back 'Birds rebates from participating dealers, or they can write to Techsonic Industries, Inc., One Humminbird Lane, Eufaula, AL 36027, or call toll free at 1-800-633-1468.

THE SUPER REEL DEAL

Buy our "hot" new graphite spinning reel and we'll pay you ~~$5.00!~~ $10.00

RYOBI®
There's never been a better reason to go fishin'.

Special rebate offer on the new MGT/MG Graphite Series

THE DEAL

The Super Reel Deal was originally a $5.00 rebate, but we decided to double it for Christmas. So from November 23 till December 24, Ryobi will pay you $10.00 for buying any reel in the new MGT/MG Graphite Series. That's right! **$10.00**

There's no limit! You can buy as many new MGT/MG Graphite Spinning Reels as you want. Buy one reel and receive a $10.00 rebate or buy four reels and receive a $40.00 rebate. But hurry! This special $10.00 rebate offer ends December 24, 1984. Use the handy order form and include the sales receipt and UPC code to speed your rebate to you. (Not valid if sent without order form, sales receipt and UPC code.)

Mail your completed order form with sales receipt and UPC code to:

"Ryobi Rebate"
Ryobi America Corporation
1158 Tower Lane
Bensenville, Illinois 60106

THE REELS

This is a great deal because the new MGT/MG Graphite Reels are among our top-of-the-line spinning reels. They're loaded with high-tech features and outstanding value.

- Graphite body, spool and rotor
- Gear reduction oscillation
- Convenient, calibrated rear drag
- Ball bearing construction
- Right/left convertible folding handle
- Touch 'N Trip™ casting system and self-centering bail on MGT models
- Choose from 10 great reels

RYOBI REBATE

Please send me my Ryobi MGT/MG Rebate Check. I have filled out the order form and attached the necessary sales receipt with purchase date circled and the UPC code(s) from the reel box(es). I understand I will receive my rebate check in four to six weeks.

Official reels of the Red Man Tournament Trail.

MAIL TO:
"Ryobi Rebate" Ryobi America Corporation
1158 Tower Lane
Bensenville, Illinois 60106
(Please print clearly)

Name _____

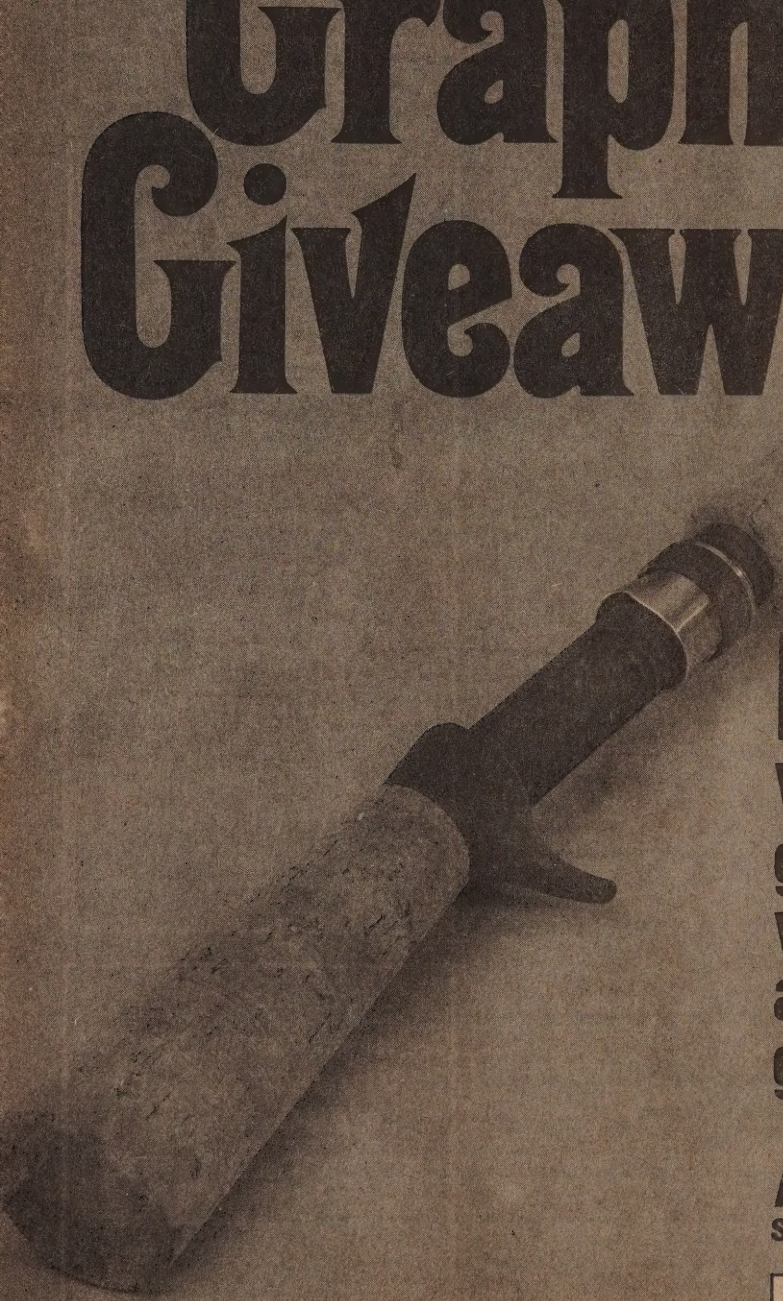
Address _____

City _____ State _____ Zip _____

Amount of Rebate $ _____

Rebate requests must be postmarked by January 15, 1985. Not valid if not accompanied by sales receipt and UPC code. Offer void where taxed, restricted or prohibited. Offer good in U.S.A. only.

The Great Graphite Giveaway



FREE

V-MAG™ • Lite graphite rod with purchase of any V-MAG™ • Lite graphite reel!

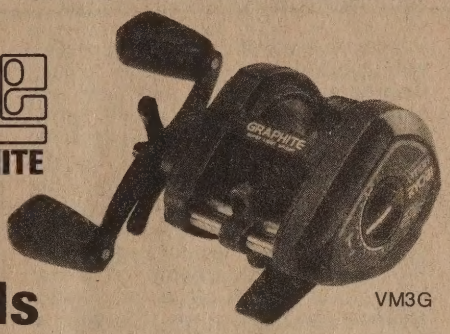
A $39.95 value!

See other side for details!

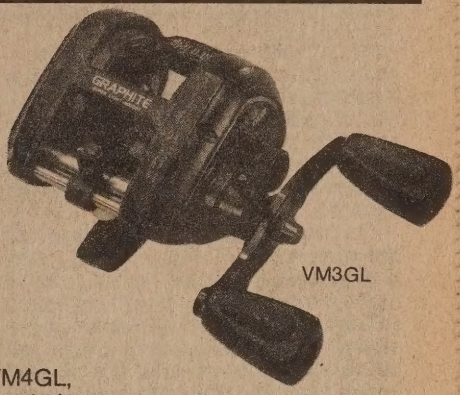
RYOBI®

Buy any new V-MAG•Lite graphite baitcasting reel between Nov. 23 and Dec. 24 and receive a new V-MAG•Lite graphite baitcasting rod FREE.

V-mag™-Lite GRAPHITE



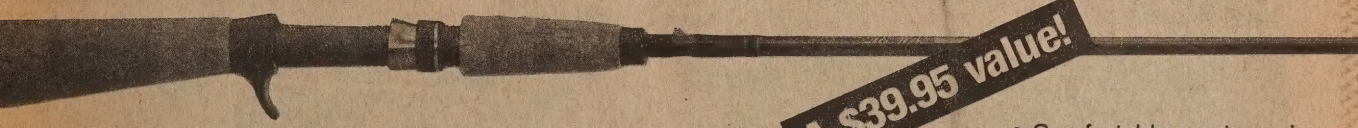
VM3G



VM3GL

6 great graphite reels

The new V-MAG•Lite Graphite Reels are available in three right-hand retrieves (models VM3G, VM4G, VM40G) and three left-hand retrieves (models VM3GL, VM4GL, VM40GL). There's one to please any angler!



A $39.95 value!

Great gift/Great bargain

The new V-MAG•Lite Graphite Rod is the perfect match for any new V-MAG•Lite Graphite Reel. Its 86% graphite rod blank extends through the reel seat for extra strength and greater sensitivity. It is 5'6" long with medium action. And the new V-MAG•Lite Graphite Rod is loaded with these great features:

- Comfortable, contoured cork handle
- Natural graphite color
- Precision wrapping
- Five titanium line guides
- Weighs only 3.8 oz.

Direct to you from Ryobi

We'll ship your new V-Mag•Lite Graphite Rod(s) to you absolutely free. A $39.95 value! And there's no limit on quantity! Buy as many V-MAG•Lite Graphite reels as you want and receive a new V-MAG•Lite Graphite rod for each reel purchased. But hurry! Offer ends December 24, 1984. (Not valid if sent without coupon, sales receipt and UPC code.)

Mail your completed coupon with sales receipt and UPC code to:

"Free Rod Offer"
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1158 Tower Lane
Bensenville, Illinois 60106

RYOBI®
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Official reels of Red Man Tournament Trail.

Free V-MAG•Lite Graphite Rod Offer

Please send me my free V-MAG•Lite Graphite Rod(s). I have filled out the coupon and attached the necessary sales receipt(s) and UPC code(s) to it. I understand I will receive my new V-MAG•Lite Graphite Rod(s) in four to six weeks.

Ship my free V-MAG•Lite Graphite Rod(s) to:

(Please print clearly)

NAME

STREET ADDRESS OR RURAL ROUTE #

CITY STATE ZIP

Number of V-MAG•Lite Graphite Rods I am to receive: ____

(Check the appropriate box) (Please indicate quantity)

I bought the new V-MAG•Lite Graphite Baitcasting Reel(s) checked below:

☐ VM3G ☐ VM3GL ☐ VM4G ☐ VM4GL ☐ VM40G ☐ VM40GL

Requests must be postmarked by January 15, 1985. Offer void where taxed, restricted or prohibited. Offer good in U.S.A. only.

Consumer Rebate Only.

RECORDERS FOR 1985

by Al Ristori

Here's a look at what is available on the recorder market for the upcoming season.

I'm just old enough to remember when the introduction of graph recorders on party boats was a revolutionary advance, and one which the average boat owner could hardly aspire to. However, all that has changed in the last couple of decades.

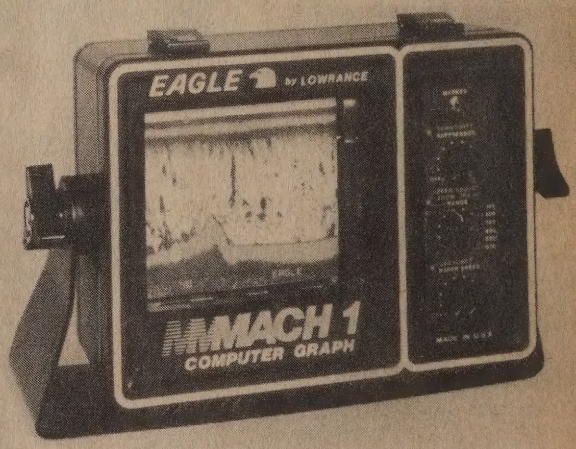
The technological advances in chart recorders continue every year, but there's also a considerable choice now in video units. It wasn't many years ago that such sets were bulky and quite expensive. Now many are being made to fit into the limited space available on small boats—and the cost is way down. Color video units provide more distinction between game fish and bait, and they, too, are becoming more affordable.

It's quite likely that video recorders will completely displace chart recorders in the future, but there are still some problems to be overcome. The resolution on small video screens doesn't compare with that on paper. That problem can be compensated for with large screens, but that involves more space and sharply increased cost. All of that will change when there's sufficient volume to make large-scale production of video screens specifically for recorders a reality. Prices will then drop sharply—perhaps enough to push chart recorders out of the market over a period of several years. Another recent innovation is the liquid crystal display (LCD) now available from Vexilar and Humminbird.

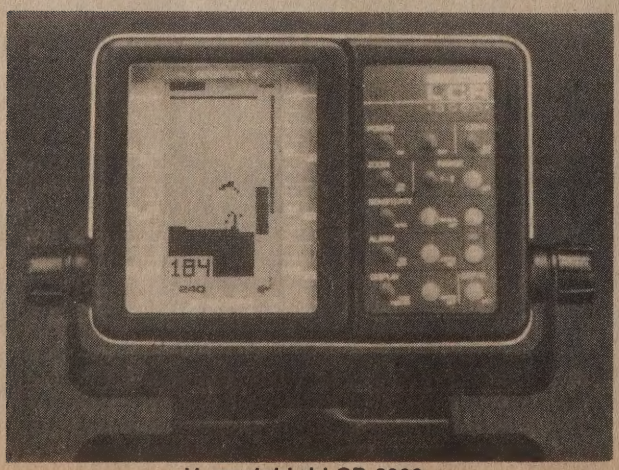
Now let's take a quick look at some of the newer products available in this field which are suitable for small boats.

Lowrance: The introduction of the X-15 a couple of years ago represented a tremendous breakthrough in chart recorder technology. The X-15 was the first computer recorder, and it provided readings into depths of more than 1,000 feet in any 10-foot segment selected by the operator. What's more, the price was right and competition became so intense that the units were available to the consumer with little or no mark-up. As good as the $600 cost of the original X-15 looked, the improved X-15B is quite a bit less expensive. Best of all, the Lowrance chart recorders are com-

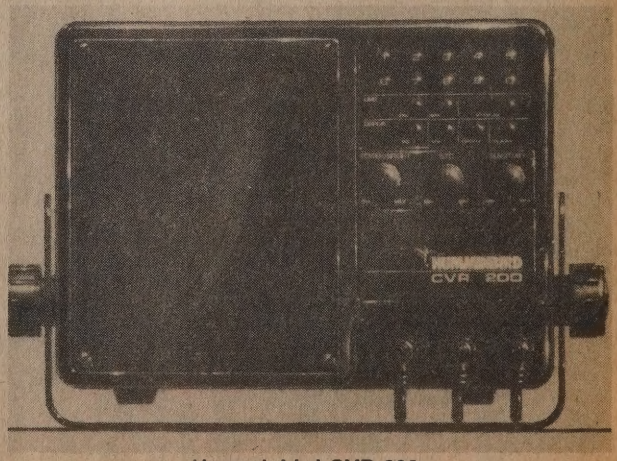
Lowrance X-16



Eagle Mach 1



Humminbird LCR 3000



Humminbird CVR 200

pletely waterproof. That doesn't mean that they'll survive some salt air or a little spray—but that you can wash them down with a hose!

The X-15B will record to depths of between 800 and 1,200 feet, depending on conditions. It operates at 192 kHz and can be used with 8 or 20 degree transducers. For most small boats, this is the preferred unit. The X-155B operates at 50 kHz with 16 or 45 degree transducers. It will record to 2490 feet and is the better bet if you fish offshore. The X-155B will show fish below 400 feet very accurately with the 16 degree transducer, the 45 degree transducer provides a large searching area, and is ideal for use with downriggers—which can be tracked so you're always aware of the depth of your lure. Both the X-15B and X-155B have 1600 watts of power and can be set up with the two applicable transducers which connect to a switch.

Now Lowrance has gone still another step further. The new X-16 will measure in one-foot increments and, with special transducers, can record to 8000 feet. That gives it a possibility of no less than 32 million range settings! Furthermore, with an add-on box, the X-16 can be made to do the work of both the X-15B and X-155B by utilizing both 192 kHz and 50 kHz transducers. All the cone angles from 8 to 45 degrees can be used. Also new is a memory system (powered by a 10-year lithium battery) that recalls the same settings and functions last programmed before the set was turned off. The X-16 will also record Loran C numbers, printing the coordinates on the chart paper at your command. It will interface with the forthcoming Lowrance Loran C units, as well as some others.

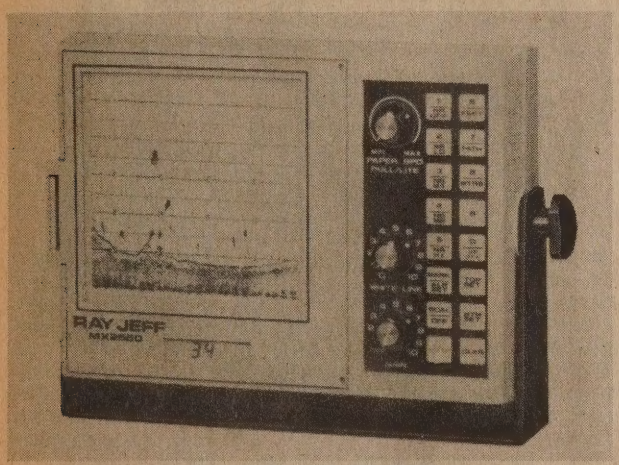
Another new feature allows the operator to select light, medium or dark chart images—and a new paper-saving mode allows a roll of paper to run four times longer than in the X-15B. The X-16 should become available very early in 1985, but will be higher priced than the X-15B and X-155B which will remain in the line.

Eagle: This division of Lowrance produces units with fewer features, but at even more affordable prices. The Mach 1 and Mach 2 computer graphs are similar to the X-15B and X-155B, but lack the keyboard. Instead of virtually unlimited 10-foot ranges of your choice, you get 12 ranges from 0 to 10 feet to 0 to 1,000 feet on the Mach 1 and 0 to 20 feet to 0 to 25,000 feet on the Mach 2. A one-step bottom expansion feature actually gives you 24 ranges.

Humminbird: Techsonic Industries has made some remarkable advances this year. Formerly just a minor factor in chart recorders, they now have added four liquid crystal display units and two color video recorders. The LCR units provide detailed readings even in bright sunlight and are completely waterproof. The "basic" LCR 1000 has a microcomputer inside which controls sensitivity, noise reject, sweep speed and the four depth ranges of 0-15', 0-30', 0-60' and 0-120'. Just turn it on and go fishing! The LCR 2000 is similar, but with additional manual controls and an adjustable audible alarm. Both put out 200 watts of peak-to-peak power. The LCR 3000 is more practical for saltwater use as it reads down to 480 feet in five increments, starting at 0 to 30 feet. In addition, the target separation is only 1½ inches—as compared to 6 inches in the two less expensive LCRs. This and the LCR 4000 (four ranges from 0-30' to 0-120') have 800 watts of peak-to-peak power and a multitude of additional features. All four LCRs operate at 200 kHz. Cone angle is 8 and 16 degrees, except for the LCR 4000 which has 16 and 32 degrees.

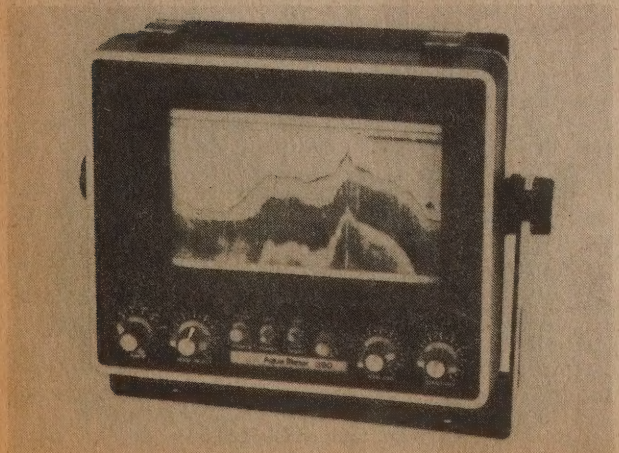
The new compact CVR 50 and CVR 200 color video recorders provide eight-color high resolution displays and will separate targets 3 inches

(Continued on next page.)



Ray Jefferson MX 2550

Ray Jefferson Telescan 1000



Aqua Meter 390

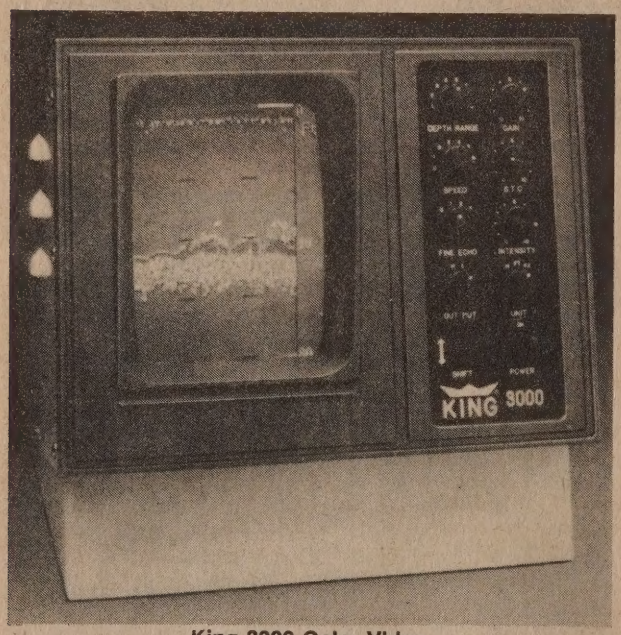
Si-Tex HE-357 Magnum

apart. Both have 6400 watts of peak-to-peak power, weigh 22 pounds and have dimensions of 8¼"H x11"W x-12¾"D. Variable depth and zoom ranges up to their maximum depth capacity are available on the 8 inch diagonal screens of both units within 10-foot increments. The CVR 200 operates at 200 kHz and has cone angles of 16 and 32 degrees. The CVR 50 operates at 50 kHz and has a 43 degree cone angle. It should be noted that these color recorders are only rated as "weather-proof," rather than "waterproof"—as are all the other Humminbird electronics. Nevertheless, they still carry a one-year warranty and Humminbird's Lifetime-Guaranteed Service Policy. Still in the line is the CH Thirty II chart recorder with the patented paper changer that loads in four simple steps. Power output is 1820 watts, and it operates at 200 kHz with 16 and 32 degree cone angles and four depth ranges of 0-30' to 0-240'.

Ray Jefferson: With the MX-2500 computer recorder, Ray Jeff zoomed in on the market Lowrance created. Now they've gone a step further by adding the MX-2550 with a continuous LCD readout of depth. Unlike some other graphs with digital readouts included, this one makes sense as it operates whether the recorder is on or off—thus saving paper when you have no need for that information, but still want to keep track of depth. This very competitive recorder has a list price of $799.95—$100 more than the MX-2500. Both come with a 200 kHz transducer, provide any depth in 10-foot increments—and have an alarm feature. In each case there's an "A" version with 50 kHz transducer for greater depths.

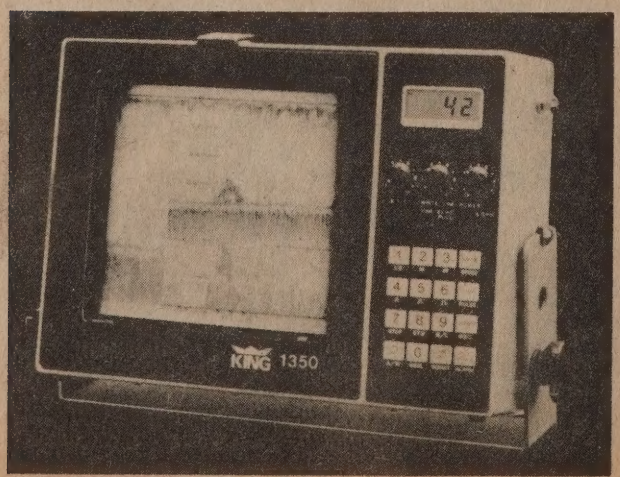
A big step forward for Ray Jeff is the new Telescan 1000 video which will be available early in 1985 and lists for $799.95. The viewing screen is a 6 inch cathode ray tube (CRT) which provides readings in four distinct shades of grey. There are six basic ranges from 0-30' to 0-960', each selected by a touch on the waterproof touch-tone membrane keyboard. A zoom feature allows the operator to expand either the top half or the bottom half of the screen to cover the full screen. Other features include a "freeze frame" for examination in detail and a dual alarm system. A unique tri-transducer provides not only depth readings, but also gives boat speed and surface water temperature. These additional features eliminate the need for similar accessories and make the Telescan 1000 a real bargain.

Aqua Meter: The introduction of the Graduate LCD flasher in 1984 blunted any further progress with chart recorders. The Graduate has been a big success and now holds front stage at Aqua Meter, but they still carry the 390 straight line recorder which lists for $699.95. Featuring 1000 watts output, the 390 has six depth ranges from 0-15' to 0-480'—and both white line and grey line (plus any shade in-between) in its Aqua Line



King 3000 Color Video

Vexilar 482 LCD Video-Sonar



King 1350

Sonic Wave VS2020Z

feature for bottom discrimination. The 200 kHz transom mount transducer gives accurate readings at speeds above 50 mph.

Si-Tex: This long-time leader in marine electronics offers a wide choice in chart recorders, as well as the HE-710 color video sounder. New is the HE-357 MK II Magnum chart recorder which offers a "user friendly" depth-selector keyboard. This unit is similar to the HE-357 Magnum introduced last year for shallow water fishing, except for the computerized keyboard. Operating at 107 kHz, it has a target resolution of four inches and an 18 degree cone angle. Interference with flashers has been eliminated. Three different graph presentations can be selected. Conventional straight-line printing is best for detailing bottom contour, structure and texture (hard, rocky or muddy), while white-line printing displays bottom contour as a dark thin line with a white border directly beneath—the best bet for spotting bottom-hugging game fish. Clean-line printing is a grey tone presentation with the cleanest, clearest overall representation of suspended fish. Clean-line can also be used in conjunction with white line for bottom fishing. The HE-357 MK II Magnum features fast loading of four inch paper in a cassette system and a lighted keyboard.

King Marine: Using technology acquired in becoming an aviation electronics leader, the marine division of King has produced sophisticated electronics at surprisingly low prices. A big breakthrough is the 3000 color CRT with eight ranges to 1600 feet or 800 fathoms or meters. The "suggested" retail for the 200 kHz 3000A (recommended for under 600 feet) is $1,495 or $1,595, depending on transducer choice. However, the actual retail is much lower. The 3000B has a 50 kHz transducer for deeper waters and lists for only slightly more. The 3000 units translate echoes received into six colors, with red being the strongest, to light blue as the weakest. By pressing the "color" switch, the machine will display a color priority band showing all the colors in the order of their importance. Using this moving band as a reference, the operator may interpret the picture as to size and species of fish being shown. A shift feature enables you to dial in an infinite number of depth measurements in one unit increments for unlimited range possibilities.

King is also big in conventional chart recorders at modest prices. Their top-of-the-line 1350 is a six inch machine with four-tone grey printing and a bottom lock on the lower third of the chart for uncovering "hidden" fish. It features computer selected paper speed and pulse for optimum discrimination (with manual override), has 1600 watts peak effective power and is scaled to 3000 feet. There's an audible alarm incorporated, and the 1350 can be interfaced with King's 8001 Loran C to print position on the paper. The King 1022 is a compact four inch unit that will record to 450 feet (the new 1022B goes to 600 feet with a first range of 0 to 12 feet) and has a digital display of depth—just as in the 1350. It's available in both 200 kHz and 50 kHz, and weighs only five pounds. Even less expensive are the compact four inch 1013 (0 to 12' first range), 1011 (0 to 9' first range) and 1000 (0 to 60' down to 240 to 480').

Vexilar: This company was the pioneer in liquid crystal displays. They came out with the 480 LCD Videosounder in 1982 and have expanded their line since then. The new 482 has (in addition to "Zoom Zone" expansion and surface water temperature display) an extended depth range to 2,400 feet programmable in feet, meters or fathoms. Dual frequency transducer selection for either 50 kHz or 200 kHz gives the operator excellent resolution and definition of fish and bottom structure. In addition, there's white line, digital displays of trolling speed and constant bottom—and programmable upper and lower alarms. The 482 is rated as "splash proof"—sufficiently sealed to allow washing off. It won't be affected by rain. Also new is the 481-200 in 200 kHz for the freshwater bass fisherman and 50 kHz for offshore. The former has programmable depth range to 500 feet and dual transducers with 9 and 20 degree cone angles. The 481-50 is programmable in one foot increments all the way to 2,400 feet and has a single 40 degree transducer. Both have the Zoom Zone, surface temperature, and bottom readout feaures, and are splash proof.

Sonic Wave: The new VS2020Z and VS2040Z from BH Electronics are computerized versions of the popular units they replace. With a six inch vertical CRT screen they offer unlimited depth range and zoom range selection. A twin screen function provides a simultaneous display in normal mode (upper screen) and zoom mode (lower screen). There's also a numeric depth display, and optional screen numeric readouts of boat speed and surface water temperature. The VS2020Z records to 720 feet and has a 32 degree 75 kHz transducer. For deep water and downrigger work, the VS2040Z has dual transducers of 9 degrees, 200 kHz and 32 degrees, 75 kHz. Both can be used at the same time with the split screen. Both of these units are now completely waterproof and corrosion proof. The Sonic Wave 660S doesn't have the split screen or computerized keyboard. There are five ranges from 0 to 15 feet to 0 to 360 feet. With other features also missing, the 660S sells for a good deal less than the other video sounders. Sonic Wave also has six inch chart recorders.

There are many other chart recorders and video sounders on the market, but I'm still awaiting information on them. During the spring, we'll have an even more comprehensive electronics update with all the latest innovations.

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INSTALLING IT RIGHT!

by Eric B. Burnley

Proper installation of your depth sounder and its transducer is the first big step towards reaping the rewards of these fish locating units.

I doubt if there are many fishing boats on the water today that don't have some sort of depth finder. It may be a flasher, recorder, LCD, or video, but no matter the type,if it is not installed properly it won't give you the reliable information you need to catch fish.

Depth finders all work the same way. The main unit creates an electronic pulse that travels down a cable to the transducer where it is transformed into a sound pulse. This pulse travels through the water until it comes in contact with an object solid enough to bounce it back to the transducer. The returning sound signal is transformed back to an electrical pulse, transmitted through the cable and interpreted by the unit where it is displayed. This entire sequence can occur thousands of times per minute depending on the speed of operation.

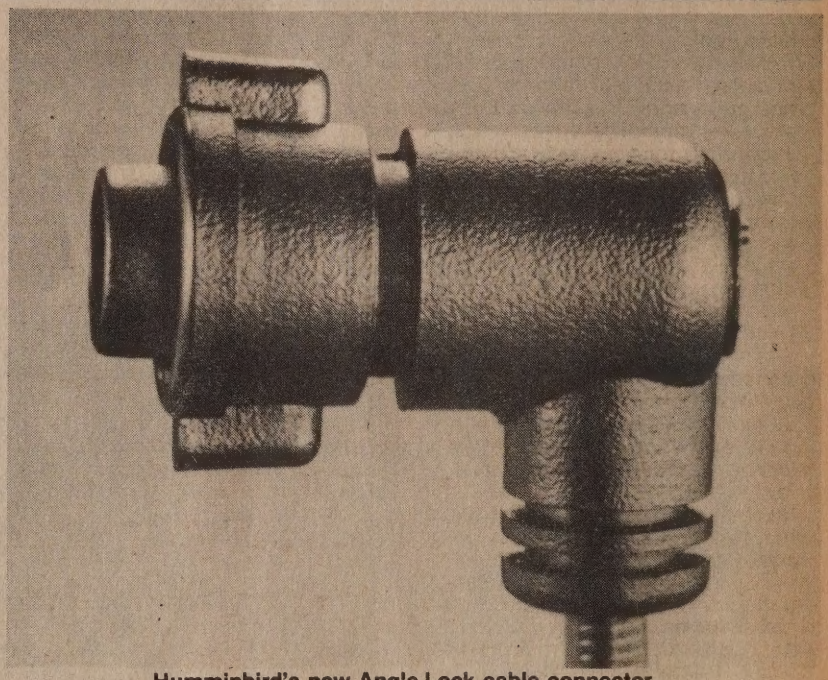
The signal traveling through the cable is very small and measured in millivolts. This is much smaller than the noise spikes generated by your engine, VHF radio, Loran or almost any other electrical device you may have on your boat. According to Ernie Schleusener of Humminbird, the placement of this cable is the most important part of installing a depth finder.

You must run the cable from the transducer to the unit through the shortest possible route and as far away as possible from any other electrical device.

Naturally you will want to place the unit in a spot that is easily seen and convenient, but you must keep it at least 12 inches away from your compass. The power cord should be run to the unit and checked out before any holes are drilled or permanent mounting brackets installed.

Next, run the cable down the opposite side of the boat away from the power cord. If you have a center console with all the wires running through a conduit pipe, try to keep the depth finder cable out of that tube. You should run it up the side of the boat and across the deck for best results. It can be covered with carpet or other protection. This may not be the most aesthetic way to do it, but the results wil be considerably better.

The normal length of a cable supplied with your unit is 20 feet. If that is not long enough you must get an extension cable with the proper connector from the manufacturer. You cannot splice transducer cable.



Humminbird's new Angle-Lock cable connector.

The power cord should come directly from the battery. Do not run a line from the battery to a terminal block and then pick up your power for radios, depth finders, lights and gauges from this source. When all are hooked directly to the battery, it acts as a buffer and reduces interference from one accessory to another. The best setup is two batteries with one used specifically for electronics and the other for the engine. A deep cycle battery won't work in this application because it puts out too much current and could damage the starter if you needed it to fire up the engine in an emergency. An in-line fuse holder should be connected to the positive side of the line.

When running any wire, you should try to keep things as straight as possible. Do not twist the power cords for the radio, loran, depth finder and gauges together. Secure the wires with plastic straps and use tape on any surfaces that may rub and cause chafing. Be neat and keep each power cord separated as much as possible.

The placement and installation of the transducer must also be considered when running wires and cables. The type of transducer and the style of installation will depend on the type of boat and the material it is made from.

One of the easiest installations of a transducer is on a bass boat. You simply secure it to the trolling motor with a stainless steel strap. If the unit is mounted on the bow, you have a very short cable run with little chance of interference.

At the other end of the spectrum would be a large sportfisherman with the transducer mounted through the hull and the cable run up to the fly bridge or tower.

Most of us own boats that fall somewhere between these two extremes. In a craft between 16 and 25 feet there are several places where you can mount your transducer.

If your hull is aluminum, the transducer will have to be mounted on the transom. It should extend one-half inch below the bottom to avoid the turbulence caused by the rivets or welds that hold the boat together. There are high speed transducers shaped like the bottom of a boat that kick up if they strike an obstruction and these are ideal for mounting on aluminum hulls.

These transducers are also perfect for mounting on the transom of a deep V hull where it is impossible to

get the bottom of the transducer parallel to the water without some part of it sticking out below the hull. They travel smoothly through the water and don't create a rooster tail when running at high speeds.

Another option for fiberglass boats is shooting through the hull. To do this you should put enough water in the bilge to submerge the transducer, then while the boat is running, move the transducer around until you find the location where the transmission is best. I suggest using at least two people for this project to avoid possible problems with other boaters, piers, rocks and sand bars.

You cannot shoot through a foam or balsa-filled hull. It must be solid fiberglass and you must be careful to place the transducer where it won't be shooting through a void in the lay-up. For this reason, a position away from the centerline is usually best.

Once you decide where you want the transducer, mark it, drain or pump the water out, and then mount it with clear epoxy. On deep V hulls you will have to build a dam with molding putty or clay and fill this with epoxy to give yourself a level base for the transducer.

Mounting a through-the-hull transducer is usually unnecessary and quite expensive. You need a special bronze transducer and you must use fairing blocks both inside and outside the hull. According to Mr. Schleusener, this is seldom necessary on any boat under 30 feet in length.

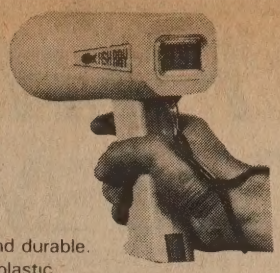
Flat bottom boats can use a square transducer mounted on the transom just below the water line. Since they don't protrude below the bottom they won't create a rooster tail and will work quite well at planing speed.

When you purchase your depth finder there will be a set of instructions and an operator's manual in the box. These are not packing materials that should be thrown away. They are important documents that should be studied carefully before installing the unit.

If you don't feel comfortable installing the depth finder yourself, let the boat yard or electronics store that sold you the unit install it for you. I suggest looking at some of their previous installations before turning them loose on your boat. Most do fine work, but it pays to be careful. It also helps to tell them exactly where you want the unit and which method of transducer installation you want. The workmen can advise you if this is possible and suggest alternatives if it is not. A little discussion beforehand can save some heated words after it's too late to change things.

Your depth finder will serve you for many years if it is properly installed and maintained. Remember to keep the cable clear of any interference, run the power cord directly to the battery and use the proper transducer and mount for your style of boat. The net result should be a clear presentation on the face of the depth finder and more fish in the box.

Ice Eyes



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FISHING BY THE NUMBERS

by Pete Barrett

Each year, Loran C gains in popularity as more and more anglers discover its "magic."

Five years ago few fishermen owned a Loran. Today, Loran is one of the most sought after pieces of electronics by Fisherman readers, and it makes little difference whether you fish inshore or offshore—the Loran can put you on top of good fluking and bluefishing; on top of wrecks, ridges and lumps, and on top of distant offshore tuna hotspots. Bay and freshwater fisherman are also using Loran to find favorite fluke holes and hotspots for lake trout and bass.

What is Loran? LORAN is an abbreviation (called an acronym) meaning LOng RAnge Navigation. It utilizes land based stations to transmit radio waves to shipboard receivers. In essence, the Loran receiver on your boat is much like the radio in your car, except that it doesn't play music, it "plays" numbers.

The radio signals are transmitted as a group called a Group Repetition Interval, GRI for short; and is made up of a master signal and several secondary signals. The secondary signals are precisely broadcast so they arrive at the receiver at slightly different times. These time differences, called TD's, are measured in microseconds (millionths of a second) and are displayed by the receiver as numbers.

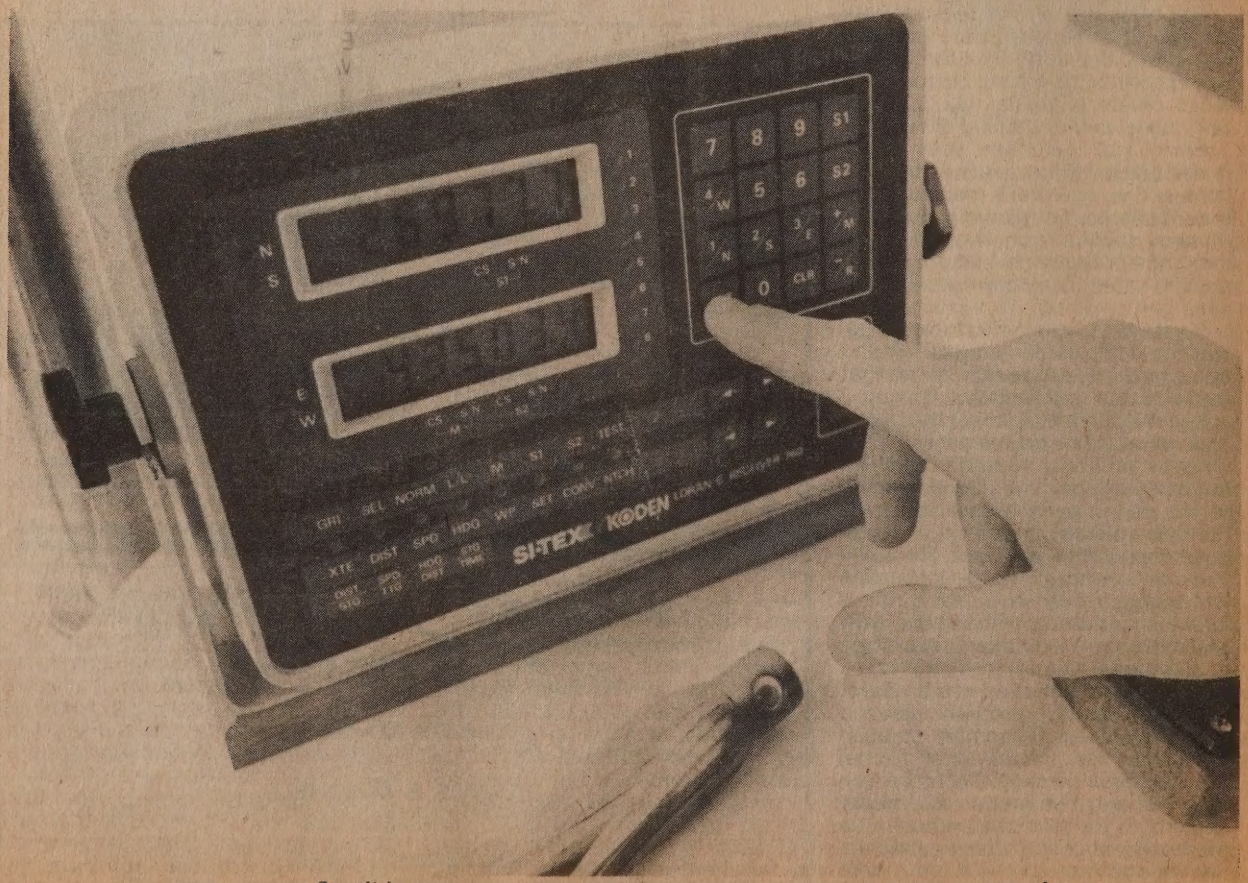
The Loran receiver usually displays the TDs as pairs of numbers, each of which can be plotted on a line of position, called a LOP, which matches lines of position pre-printed on the coastal navigation charts. Your exact position is the spot on the chart where these two LOPs cross each other.

In this area of the coast, the GRI is the 9960 chain and the secondaries are transmitted from Caribou, Maine (11,000 micro secs); Nantucket, Massachusetts (25,000 micro secs); Carolina Beach, North Carolina (39,000 micro secs); and Dana, Indiana (54,000 micro secs).

When you first use your Loran, it will track all the secondary signals; but for the greatest accuracy, it is recommended that you choose the two secondaries that cross at nearly 90 degrees. In our area these are the Nantucket and Carolina Beach signals. They will display, depending on your actual home port, the values of 25,000 to 27,000 and 41,000 to 44,000 on your receiver. In fishing/boating jargon the 26,000 numbers are referred to as the "top" line; the 43,000 numbers as the "bottom" line.

If you are a first-timer to Loran, the instruction manual that comes with the unit will tell you how to program the GRI and how to select the secondaries. It may seem awesome at first, but with a few simple finger presses on the keyboard panel, you can quickly make the Loran read what you want it to.

The navigational charts with the Loran C over-print showing lines of



Si-Tex Loran C unit is easy to operate and does not take up much room on console.

position are available at most marine dealers and ships stores. For a complete list of all the coastal charts, write to National Ocean Survey, Distribution Div., Riverdale, MD 20804.

For more information about Loran and how it works, write to "Loran C Education and Information," U.S. Coast Guard Headquarters (G-NRN/TP14), Washington, DC 20593. Other pamphlets may be available at local Coast Guard stations. The best publication on Loran is titled "Loran C Users Handbooks," distributed by the Coast Guard.

As your boat moves from place to place, the numbers (TDs) will constantly be updated by the mini computer inside the Loran receiver so the numbers shown on the display panel will also constantly change. Your present position can always be found by plotting the intersection of the two LOPs on the chart.

For a fisherman the Loran is most valuable for two reasons: it can pinpoint offshore locations, and it can steer you to these good fishing spots.

Find the location of an offshore fishing spot, say a ridge or lump, on your navigation chart. By plotting the intersection of the pre-printed LOPs you can determine the pair of Loran numbers for this fishing spot.

On the simplest of Lorans, you would navigate by watching the changing Loran numbers. As you head east the 26,000 numbers get smaller; as you head south the 43000 numbers get smaller. Likewise, if the 26000 numbers are increasing, you are heading west; increasing 43000 numbers indicate north direction. By watching the changing numbers on the display you can tell relative direction. When the numbers of the fishing spot match the numbers the receiver is displaying, you "have arrived."

More Sophistication. It is admittedly hard to steer a straight line to a destination, such as a good fishing spot, with the above simple example. More sophisticated Loran units have the capability to plot the compass course and even calculate the distance to get to the destination, and the time it takes at the speed you are traveling.

To do this, you must have a Loran with a "Steer/Compute" option. In the first example, we looked on a chart to find the pair of destination TDs for a good fishing spot, then ran by eyeball to that spot. With a steer/compute Loran we still look up the TDs for the fishing spot on the chart, but then "plug in" the numbers into the Loran. Although each brand is slightly different in actual operation, basically the 26000 and 43000 numbers of the destination are put into the Loran with a few simple finger presses of the keyboard.

Once the destination of the fishing spot is put into the Loran, additional simple keystrokes on the board will temporarily cancel the display of the secondaries and instead will display the course heading, distance, speed and time to go.

Run the compass course to the destination and keep your eye on the Loran. Most can tell you if you are going off course by changing a programmed display of numbers. For instance, some Lorans will display 8s, or increasing number values to the right or left of the center of the top display line. If you see the numbers on the right changing, steer slightly to the right to get back on a true course.

As you get closer to your destination, a keystroke or two will bring back the display of the secondaries to verify that you are getting on the exact location. Most fishermen rely on seeing the actual numbers to get into close position, frequently using the graph recorder to print out the bottom structure.

The Loran numbers may not always match the true location of a lump or wreck, so with an eye on the graph recorder, run a criss-cross pattern until you verify the "real" location of the structure. Although most Lorans have a memory button, use a pencil to write down the true numbers so you can't inadvertently cancel the memory. Transfer the numbers to your Loran Black Book.

Fishing Applications. In the pure boating sense, Loran was intended to be an aid to navigation. For fishermen, it does much more than that. As mentioned, Loran can verify actual locations of wrecks and special fishing structure as compared to the possibly inaccurate locations printed on a chart.

I've found it beneficial to keep detailed logs of each day's fishing to plot hook-ups of fish. Trolling for blues at a ridge, I've found that cer-

(Continued on next page.)

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tain portions of the ridge may hold more fish than other parts. By knowing this, I can eliminate the less fish productive parts of that structure. Wrecks will sometimes hold blackfish over one part of the wreck and not others. Write down the numbers of the best parts of the wreck so you don't waste time on the bergall end.

Tuna trollers keep extensive records of Loran numbers and at the end of each season can plot the best fishing locations. At the Canyons there are spots that traditionally produce more bigeyes than other areas. Sometimes a relatively small area may produce a lot of marlin each year, while other nearby areas go heavy with tuna.

While drifting for sharks, I plot the location of every mako caught. After comparing catch locations over a few years, it becomes obvious which areas will consistently outproduce other areas. I leave the Loran on all day while drifting and record each hook-up.

While drifting offshore for blues while diamond jigging, write down the start position of the drift. If if proves a good one with lots of fish caught, you can return to the exact start of the drift repeatedly. At offshore locations beyond sight of land, it is difficult to get back on small productive spots by eyeball.

There are good fluke locations in large bays that can be returned to time and again with Loran. Freshwater anglers seek good catches of lake trout at underwater dropoffs and ridges that can only be found accurately with Loran. It doesn't matter that no Loran chart exists for an inland lake, the numbers displayed by the Loran are still accurate and you can return to them time and time again.

More Information. The sources previously mentioned can be helpful, but nothing surpasses the chance for a hands-on demonstration at an electronics dealer. Many marinas and electronics specialty stores have Lorans actually set up and on display so you can try them and see how easy they are to operate.

You can also see them at some of the upcoming boat shows where factory personnel will be on hand to show the best features of each brand.

The price of Loran is coming down, but it is still a large investment for most of us. Talk to the reps, try it at a demonstration, and then choose. The least expensive isn't always the best buy for you, and neither is the most expensive. Pick the one that you find the easiest to operate. Within range of your pocketbook, forget about price; ease of operation is the most important factor in your choice.

Loran C is definitely a big advantage for fishermen. It not only can make you more productive, it also adds a lot of safety, especially if you run to distant offshore locations. Your Loran is a valuable friend and helpful fishing buddy that becomes hard to live without.

TOP TROUT CATCHES

BY FRED GUARDINEER

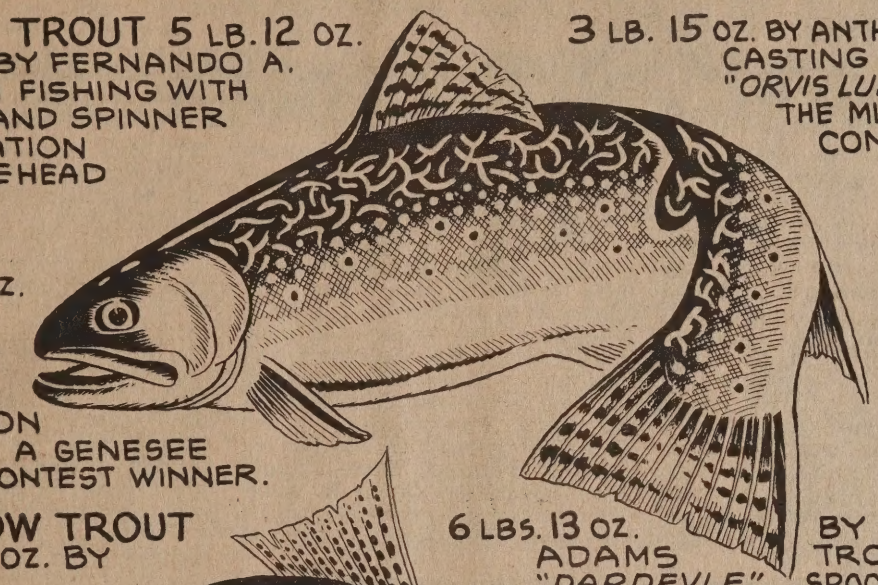
TROUT, WHETHER BROOK, BROWN OR RAINBOW ARE FAVORITES OF FRESHWATER FISHERMEN AND ARE LIBERALLY STOCKED IN LAKES AND STREAMS FOR OPENING DAY. THE SEASON'S BETTER CATCHES LISTED BELOW.

BROOK TROUT 5 LB. 12 OZ. CAUGHT BY FERNANDO A. CRISTINA FISHING WITH A WORM AND SPINNER COMBINATION IN MOOSEHEAD LAKE, MAINE.

3 LB. 15 OZ. BY ANTHONY BAFFA CASTING WITH AN *"ORVIS LURE"* IN THE MUSCONETCONG RIVER OF NEW JERSEY.

4 LB. 15 OZ. BY DON MITCHELL JIGGING A BUCKTAIL IN SCHROON LAKE, N.Y. A GENESEE FISHING CONTEST WINNER.

3 LB. 1 OZ. BY JIM HENRY USING A A *"KAST-MASTER"* LURE AT CONCORD, MASS.



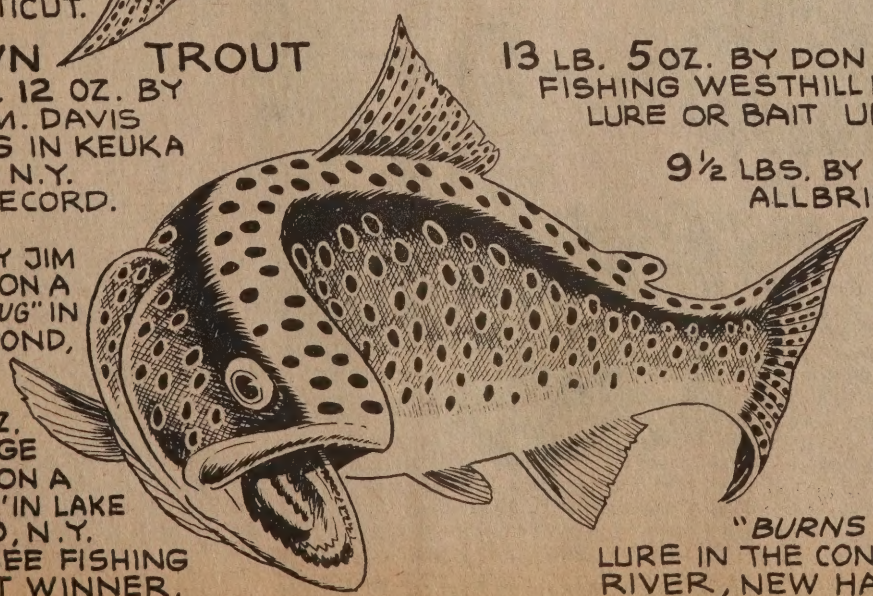
RAINBOW TROUT 21 LB. 12 OZ. BY JOHN R. SURGEN USING A *"LUHR JENSEN"* IN THE SALMON RIVER, NEW YORK.

6 LBS. 13 OZ. ADAMS *"DARDEVLE"* BY ALFRED TROLLING A SPOON IN THE QUABBIN RESERVOIR, MASS.

5 LB. 10 OZ. BY WAYNE MOREY ICE-FISHING A *"MEPPS LUSOX"* IN THE KENNEBEC R., MAINE.

6 LB. 13 OZ. BY BILL ASHAK FISHING A WORM IN BANTAM RIVER, CONNECTICUT.

6 LBS. BY WAYNE CALTABELLATA CASTING A WET FLY IN THE MUSCONECTCONG RIVER, NEW JERSEY.



BROWN TROUT 23 LBS. 12 OZ. BY BRUCE M. DAVIS ON A JIG IN KEUKA LAKE, A N.Y. STATE RECORD.

13 LB. 5 OZ. BY DON MC CAW FISHING WESTHILL POND, CONN. LURE OR BAIT UNKNOWN.

9½ LBS. BY C. RICHARD ALLBRIGHT ON A LIVE SHINER IN WANAGE RESERVOIR, NEW JERSEY.

7 LBS. BY JIM DOWNEY ON A *"REBEL PLUG"* IN LOVELL'S POND, MASS.

18 LB. 3 OZ. BY GEORGE DLUGOZ ON A *"BOMBER"* IN LAKE ONTARIO, N.Y. A GENESEE FISHING CONTEST WINNER.

7 LBS. BY ROBERT BURNS II ON A *"BURNS SMELT"* LURE IN THE CONNECTICUT RIVER, NEW HAMPSHIRE.

"TOTABLE" DEPTH FINDERS

by Dick Mermon

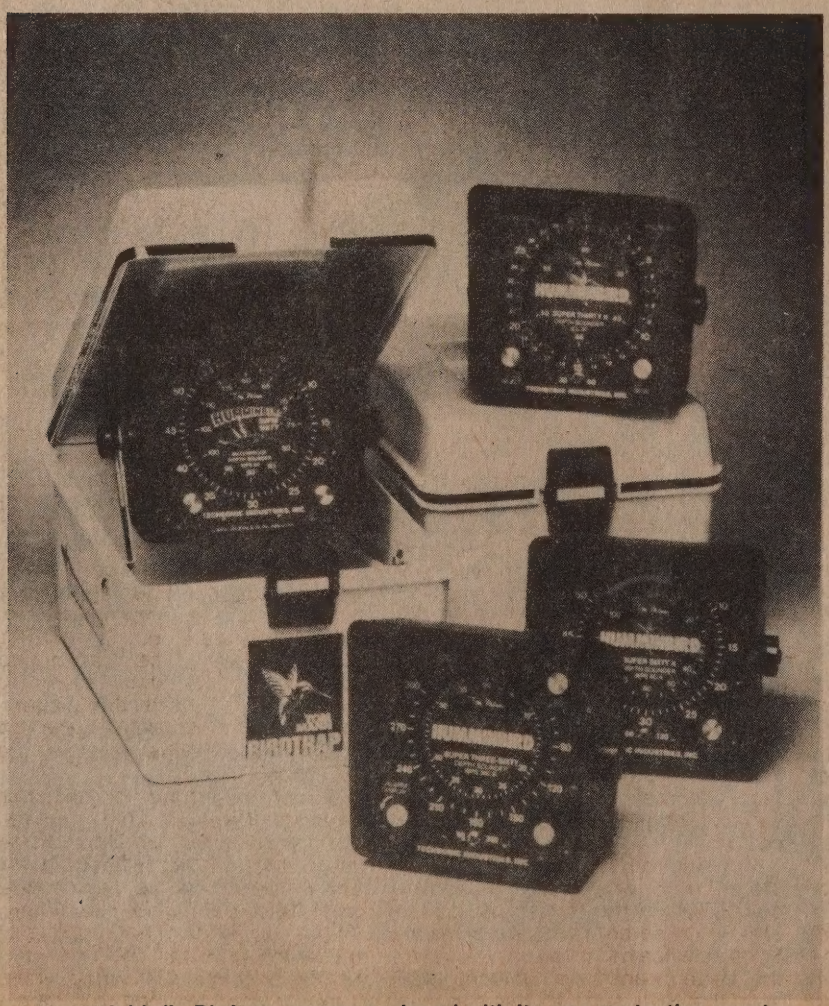
These valuable fish finding aids provide small boat anglers with all the advantages of today's electronic wizardry.

During World War II, "Sonar," the mother of all depth finders was developed. It was the underwater eye, or radar system for navigation and submarine detection. The first post-war units were directed towards commercial shipping and fishing industry, but as their popularity increased, pressure was placed upon the manufacturers to supply sport fishing and pleasure boating with machines less expensive than the "big mamas." Hence, smaller units arrived on the market for fresh and salt water fishermen. These first machines were clock faced, neon flashing light types, designed specifically to seek out and verify charted, or uncharted channels, wrecks, contours in the bottom, shelves, dropoffs, holes and lengths of reefs. With the new electronic contrivance, fishermen using the unit had to be educated to what the flashing neon lights were saying and determine the type of bottom from these flashes as to whether it was a wreck, a school of fish, or declining shelf, and if it was hard or soft bottom. The impulses of those older recorders were not as sensitive or powerful as they are in the modern units and basically targeted their direction for bottom contours. Contemporary depth finders are similar in refinement to high quality machines used in the commercial shipping industry. In fact, there are units (which can be employed as portable also) that react as a home television screen, painting a total picture of what is below the boat's hull, but not quite as polished.

With neon recorders, bottom and other floating obstacles are sighted as a flickering red light. Digital recorders, in turn, show depth in figures, but register only the bottom, nothing in-between. Paper graphs, or white line recorders electronically burn marks into sensitized paper, whereby these are especially suited for lasting impressions and having the uncanny ability to detect and separate bottom from fish suspended 1½ inches off bottom. The most outstanding and latest devices are, however, units which bridge the gap between flashers and paper graph recorders, with zoom-in features to pinpoint fish at certain depths, blow-ups of an area for better observation and also stop action to read what was in the area. The Humminbird LCR 4000, highlights a memory system which can store 32,000 bits of information the graph has recorded, like that of a mini-computer. This is a liquid crystal machine and prints out on its screen as if it were a small TV by means of minute boxes. It, too, can distinguish bottom types and separate fish from the bottom. The ultimate of all fish-depth recorders is an eight color CVR unit by Humminbird, which is a video recorder that provides high resolution displays. This machine not only denotes the bottom shape and its texture (mud or rock), but picks out desirable fish, defines weed material and plankton, classifies schools of bait fish and eliminates surface clutter. It will also determine species of fish by one of its colors. The only thing it seems the machine will not do, are windows!

With all the sophistication of electronics, there remains only one, hand-held fish-depth finder that is portable for the tote-along tackle box angler. This unit can be employed 360 degrees about a boat, scan 99 feet ahead and has a self-contained transducer. It is similar to a Flash Gordon ray gun: merely point it and "zap"—the bottom is read or fish located. The "Fish Ray," or "Ice Eyes," as it is called, can also be utilized by ice fisherman to locate fish within decaying weed beds beneath the ice.

Depth recorders, directed for permanent mounting on boats can operate as portable machines. The



Humminbird's Birdtrap comes equipped with its own protective carrying case.

unit itself is mobile, but the transducer, once affixed will be immovable, although a second sender can be obtained. Each finder operates from a 12 volt direct current battery system. Hand-carried portables like Humminbird's Birdtrap and Lowrance Green Box and Models 2000, are manufactured especially for transit fishermen. These units draw their electricity from two six-volt lantern batteries, totally self-contained within the machine. The Fish Ray uses power supplied from D cell batteries.

For anglers who customarily do their fishing from a car-top boat, rubber raft, or rent a rowboat or skiff, whether in lake, bays or backwater canals, a portable depth-finder is bound to improve your fishing skills and techniques. That "little magic box" is not full of voodoo, merely a scientifically designed instrument that can read the floor beneath the boat where you cannot see. Knowing what the bottom shape is, or what lies thereon adds confidence to common sense evaluation. Without this predetermined knowledge, angling is simply a trial and error method. This is a depth finder's primary function, whether it be flasher, paper, or video. The machine takes the guesswork out of bottom structure.

Operation of the "little magic box" is as simple as turning on a switch. The difficulty lies in one's ability to decipher the flashes, marks, or microsquares appearing on the screen. All units function by electrical impulses, convverting them into sound waves, then transforming these sound waves back into electrical impulses for readings on the machine's dial or paper.

Once the on-off switch is activated, it pulls electricity from the battery, transforming the electric energy within the transducer to a pulse of sound energy and then feeding into the water, straight down shaped like a cone. The width of a sound wave cone is predetermined by the manufacturer of each finder. Some machines carry a 6 degree cone shape, while others have a 16, 20 or 22 degree shape, depending upon the output and where it will primarily be used. Portable recorders usually carry a 16 or 20 degree scone scope for sharper bottom readings in relatively shallow water. Sound energy, in water, travels at a velocity of 4800 feet per second. It moves to an object (bottom or whatever there is in-between) at 2400 feet per second and back again at the same speed. By multiplying in seconds, the elapsed time of the received echo by 2400 feet will give the depth. Each time the indicator arm (stylus on paper recorders) revolves past zero, or surface, an electrical pulse is directed out by the transducer, at which time it also records the output as a zero flash, or burn mark on the machine's face at the surface. The transducer simultaneously takes this electrical pulse and alters it into a sound wave towards the bottom. The receiver in the transducer amplifies the return echo of sound wave and it appears as a red flash on flasher models; a burn mark on paper graphs; and a miniature square on the new LCD units of Humminbird, Si-Tex and Sonic-Wave.

This skiff angler depended upon a portable depth sounder to put him over a favorite flounder hole.

The indicator arm, revolving at a fixed speed for pre-established depths, acts as a timing device and measures the lapsed time between a transmitted signal and the returned one. The scale on each machine is carefully and scientifically calibrated in feet rather than in time. Paper recorders, with sensitized paper receive markings graduated with footage lines for detailed depths. Video graphs have separate depth ranges on the unit's face, but they can also zoom in on variable ranges between surface and bottom.

Portable depth recorders usually are supplied with a type of suction cup by which the transducer can be affixed to the boat's hull or transom. Such a device has its merits, but there are better transducer holders available that will support the sender. I have found a simple oversized aluminum "C" clamp and a 24 inch length of broom stick handle works much better than the suction cup. Bore two small holes through the stick's one end and the same through the "C" clamp's top portion. Bolt the two together and the holder is made. Fasten the transducer to the bottom part of the broom stick with a brass bolt and wing nut so it can be adjusted for parallel positioning to the bottom. The "C" clamp is placed onto the boat's gunwale or transom and tightened, then the transducer is paralleled with the bottom and secured tightly. With this system an angler can rest assured the transducer will not be lost when the motor is running.

Depth finders are not just another gimmick. It's as valuable a tool as are rods, reels and line. Yes, tackle is what catches the fish but a depth finder relates to the angler exactly what he or she cannot see. When the unit is in operation, nothing has to be taken for granted. The first step in fishing success is knowing where to look for fish. Nothing will help you more than one of those little magic boxes.

ELECTRONIC BASSING

by Gary Caputi

Freshwater bass fishing has come a long way in the last decade. Modern electronics have played a major role in this evolution.

Bass fishing has come a long way over the last 10 or 15 years. Boy, I can attest to that. Going back 12 years ago, I was a Public Relations representative for the Garcia Corporation, and was sent to attend my first-ever, honest to goodness bass tournament. A real pro tournament at that. My job was to represent Garcia, give out some prizes we had donated and assist the judges in whatever way I could. Mostly, assisting the judges meant fishing with them while things were slow.

Getting back to the story. The northeast was still asleep as far as southern style bass fishing was concerned. We were still waiting for our first bass tournament and no one really seemed to care if it ever came. I was sent to Lake of the Ozarks in Missouri, probably the northernmost lake on the B.A.S.S. tournament trail at the time. While I was there, I was struck by several lures, techniques and fishing aids that were quite unique—to me anyhow.

To show you just how bass naive I was at the time, when I saw my first spinnerbait, I had a real belly-laughing fit. In fact, I didn't stop laughing until about the time a six pound bass tried to take the baitcasting rod out of my hands in an attempt to annihilate that "silly" lure.

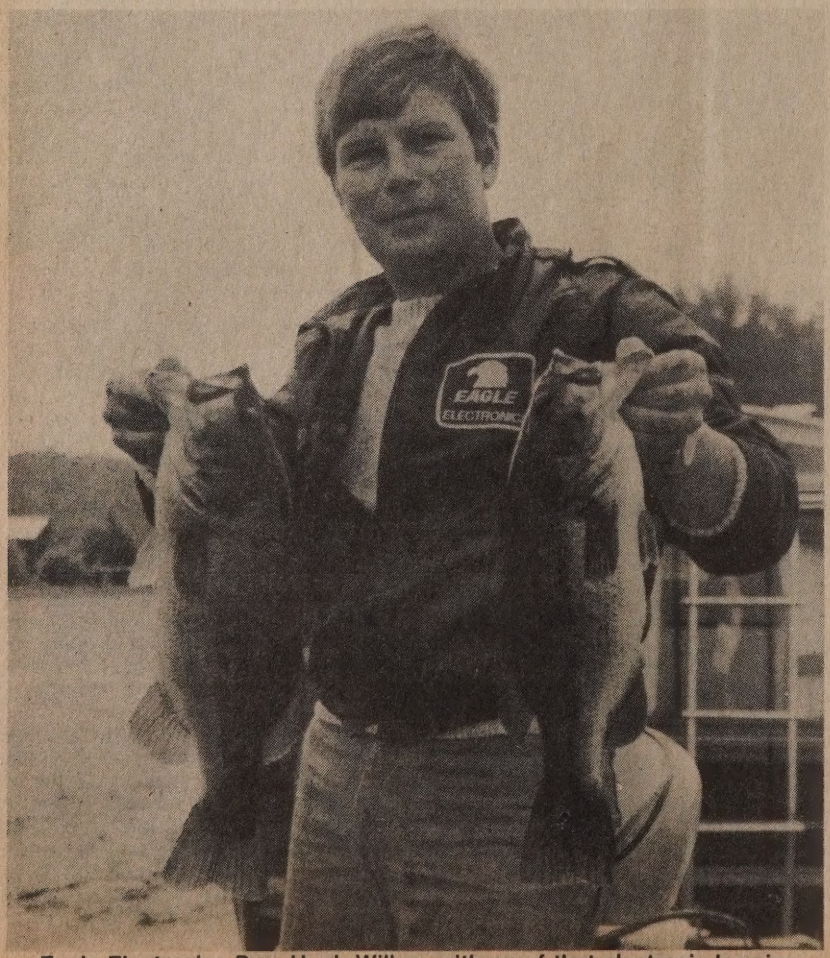
The second item that struck me as extremely interesting was the tournament fishermen's use of these funny boxes with flashing lights in them. I had seen depth flashers being used by boaters before to determine bottom depth and hence prevent scraping the bottoms off their boats. But these guys were using flashers to locate areas of structure holding bass.

That was a short twelve years ago, and it amazes me just how far down the road bass fishermen have traveled from those first simple "flashers." From such humble beginnings, the sonar flasher and its soaring popularity have spawned a billion dollar industry. Bass fishermen now have an array of available eletronics that would make Buck Rogers drool on his pocket blaster and Flash Gordon give up his lady love, Dale, just to have some of these goodies on board his ship. The tournament bass boat of today carries as many flashing lights, buttons, knobs, computer keyboards, probes, sensors and transducers as the Space Shuttle.

Since it is always interesting to take a quick look back before we check out the present and near future, let's see just where those first flashers came from.

All the available information seems to show that the first real transitorized, sport fishing sonar units were made available by Lowrance Electronics, back around 1957. This was the lowly flasher. It was portable and ran on dry-cell batteries.

Chart recorders (graph recorders) that printed two dimensional pictures did not become available to the average fisherman for a bit longer. Technology took a little longer to move them away from excessive size and cost that made them prohibitive for the average fisherman to own. Early graphs were not meant to fit on anything much smaller than a 40 foot charter boat with a big cabin, let alone a bass boat with no place out of the weather to keep them dry. Fifteen years ago, many professional charter and party boat captains could scarce afford them as a business expense, they were so costly. Among the earliest companies to down-size the graph recorder and make them more affordable was Si-Tex Marine Electronics. Today they are still one of the largest manufacturers of these units, along with a wide range of electronics for all types of fishing. Now more than 90 companies world-wide are producing fishing electronics aimed specifi-



Eagle Electronics Rep, Hugh Wilber, with proof that electronic bassing pays big dividends.

cally at the recreational fisherman and more are on the way.

Now for the exciting part. Let's see what's available today for the bass fisherman to play with. We might as well start with the good old flasher again. The flasher is still the single largest selling piece of sport fishing sonar made. You will see them on the smallest canoes and johnboats right up to the top-of-the-line tournament bass boat. It is the one piece of bass fishing electronics you will find on a boat even if it has only one piece of electronics. It is also a unit you will find mounted on a pro bass boat with every other kind of electronics available under the sun. The flasher has become simpler and less expensive each year. If you were to look at the jumble of wires in a 10-year-old flasher you wouldn't be surprised. But, open the case on a new one and you would think there was nothing inside. That is what the microprocessor has done to these simple units. The flasher that years ago cost from $250 to $450, now costs from as low as $100 to a top of $250. They are available in portable models with batteries for small, non-power boats; gimbal mounted to wire into the power boat's electrical system and in-dash mounted for neat appearance to match speedo and tach.

Why is the flasher so widely used? Because it is versatile, easy to read and gives the basic information you need for bass fishing. No, it won't draw you a picture, but it will give you depth reading and as you become proficient with it, it can tell you a whole lot more. Things like the type of bottom, soft or hard, locating bottom structure, sighting fish and more. It takes time and effort to learn to read all this information from a dial of flashing lights, but it works.

There are several new types of flashers available this year. One from Si-Tex has different color lights on the dial. They will aid in differentiating bottom from structure, baitfish from larger fish. This improvement will help the novice to learn to read the flasher more proficiently. Another new unit is not really a flasher, even though it looks like one and is read like one. It is the Graduate model from Aqua Meter. It has a dial face, but instead of flashing lights, it utilizes LCDs on the face. It also has digital readouts of depth in numbers and a computer keyboard to punch in depth ranges and a multitude of other information. It is also available with a multi-function transducer which gives the unit the capabilities of three units in one. With the multiducer, it is also a surface temperature gauge and a trolling speed indicator. These additional functions read out on the digital readout on the unit's face, making it probably the most versatile piece of electronics you can put on your boat in a single package.

The next step up the line in depth/fish finders is the graph recorder. Most of the traditional units use 4

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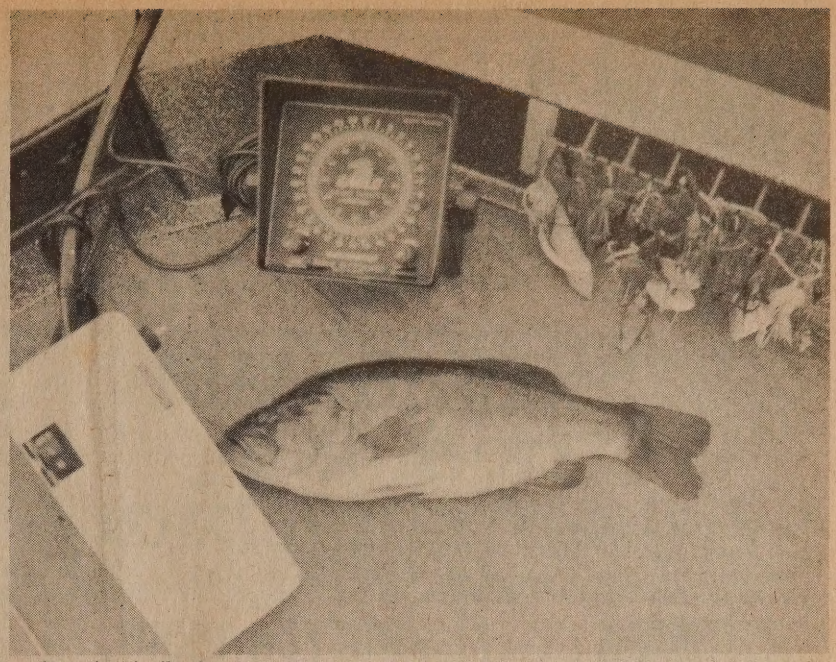
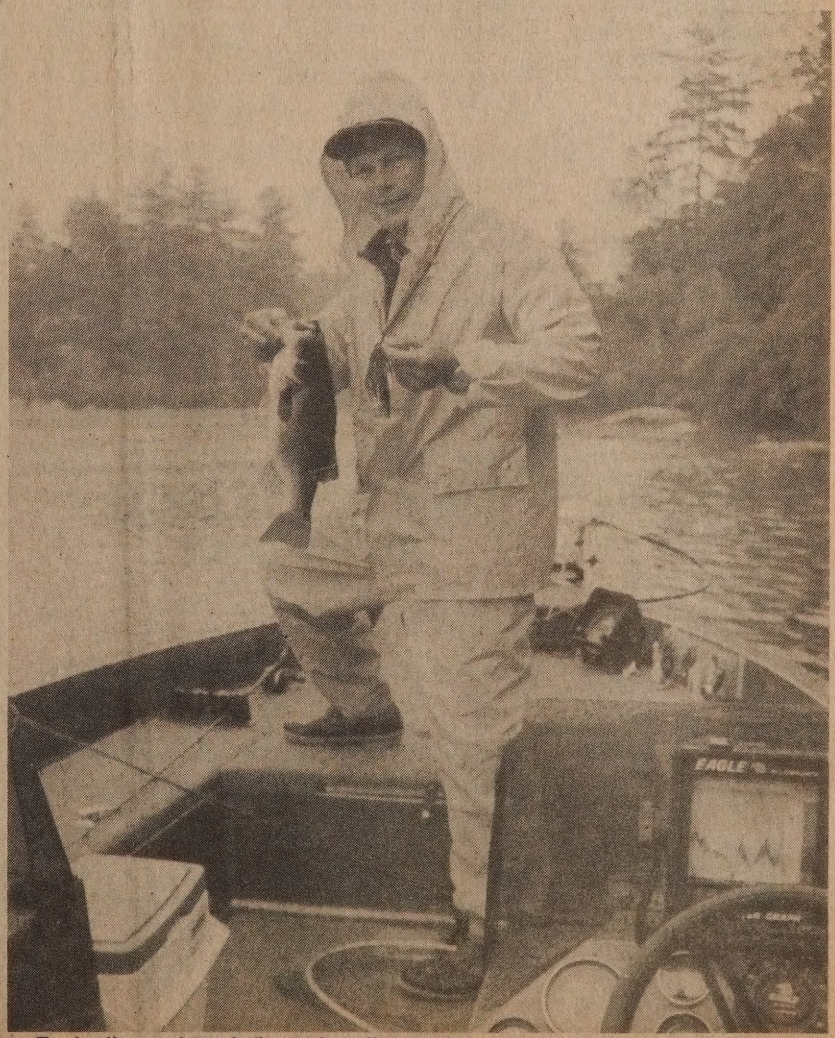


The simple flasher is still the most popular single piece of electronics used by bass fishermen.



Typically equipped "bass boat" sports graph recorder, in-dash flasher and water temperature gauge. Also, note flasher and temperature gauge mounted at bow station.

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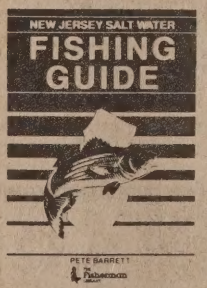

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inch graph paper, but King Electronics, a newcomer to the fishing electronics business, but a world leader in commercial airline avionics, has made a 6 inch graph machine available at about the same price. It is their model 1350. These units draw a picture of the bottom, surface and anything in-between. These are excellent for locating prime structure and to actually see the fish. Once the fishing spot and fish are located, the graph is switched off and the forward mounted flasher on the boat is used to hold on that structure.

Graph recorders are available in all shapes and sizes, with a multitude of features from many manufacturers. I would strongly suggest that you try to get a look at the units you are interested in in action. All recorders are not created equal and some have much better clarity and resolution to the pictures they make. Some of the newest generation of graphs have computer keyboard depth selectors, which allow you to choose any depth range you might desire. These units include the Lowrance X-15, X-15A and X-16, and also the newest graphs from Si-Tex: models HE-203 and HE-357 Mark II. Uniden, Ray Jeff and King have also introduced computer controlled units this year. With this type of unit, you are no longer limited to choosing just a pre-determined number of depth ranges, but you can punch in any top line and bottom line readings you desire. For example if the fish are just off the bottom in 35 feet of water, you can punch in a top line of 25 feet and bottom line of 35 feet and zoom in on the fish.

More conventional units simply give the choice of several pre-selected depth settings, like 0 to 30', 0 to 60', etc. When choosing a recorder for bass fishing, if this type of unit is priced more to your liking, be sure that it has a shallow setting of no deeper than 0 to 30', since most bass fishing is done in water of less than 30 feet.

The problem with most graph recorders is the paper. It runs out, costs money to replace, can be a hassle to replace on a moving boat in the wind and rain and so on. The paper changing hassle has been alleviated on some models with the addition of a paper cassette cartridge, but many fishermen still don't like the paper. The newest way to go is to one of the newer LCD readout graphs or the video graphs. Both read out the same as a paper graph, but they read out onto a LCD screen or a CRT (video screen). The images are not saved for later review like on the paper machine, but you never have to change paper either.

Video graphs are still rather large and costly, although a company called Impulse is marketing a new generation, miniaturized video graph unit that will fit on a bass boat console. This type of unit is also available through Echotec with a color screen instead of a black and white screen like the Impulse Micro Trac unit. Whether these units will hold up to

the rough environment of an open bass boat remains to be seen, since both are very new.

Other very helpful pieces of bass fishing electronics are also becoming mainstays of the electronics boom. The temperature gauge has been around for awhile and is now an extremely reliable unit. It is usually an in-dash unit with a permanently mounted probe which is transom mounted. Many just clip to the cable of a sonar transducer to save drilling extra holes in the boat. They are available from just about everybody making electronics and are very valuable, especially in spring and fall, when temperature plays a big part in locating fish. No secrets or tricks here, just a simple, straightforward unit that supplies good, useful information.

The latest threshold of inventiveness is a little device that was developed by a gentleman respectfully called Dr. Hill. This ingenious man has developed a way of locating bass at their most active by using a device which measures the water pH or acidity level. Dr. Hill has made a study of the basses reactions to water pH and has developed a pH meter which can accurately determine the degree of acidity in the water and what effects it has on feeding. He has even determined what pH levels will make bass most aggressive, a handy piece of information if there ever was one. His pH meter, manufactured by Lakes Illustrated, is simple to use and in its latest form, dependable and requires very little installation and upkeep. The unit operates on a single 9-volt rechargeable battery, which lasts the better part of the fishing season, due to the low power draw of the unit.

If that's not enough for you, you can be sure that there are more miracles of modern electronics technology coming your way in the future. For example, I've heard rumblings about a new type of electronic unit that determines what lure colors will be most effective under changing light conditions and water clarity. The unit is under development from Lakes Illustrated and is based on a study that has shown that bass do indeed see in color and that the colors that are most pronounced underwater depend on light source, water clarity and water depth. This new electronic unit with a submersible probe that can be lowered to any desired depth, will measure these factors and read out just what color lures will be most effective under the existing conditions. *Hogwash!* you say. Well, it's being tested and seems to be effective.

And if all this sounds just a little far-fetched, my bass fishing friends, just remember. It was only 15 short years ago that most of us were measuring how deep the water was with a sinker and string and the rest didn't care how deep the water was. So, if you want to keep up with the revolution, you better start on that electronic and computer degree real soon.

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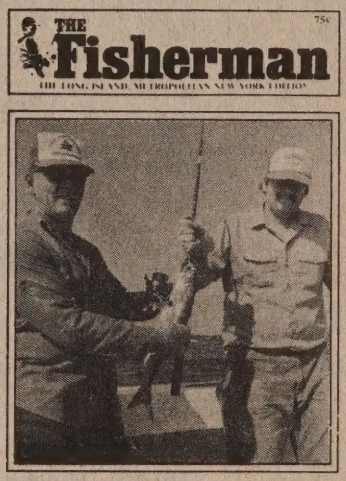

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KNOW YOUR RECORDER

by Russ Wilson

When you are plunking down five hundred hard earned dollars, you better know what you are getting for your money.

One of the most important items today's sport fishermen can have on his (or her) boat is a good chart recorder. The days when you could use shore ranges, and other structure to locate the fishing hotspots have long past for most boat owners who probe the coastal waterways and oceanfront. And, anyone contemplating the purchase of a boat for fishing should consider the recorder a part of the original cash outlay at time of purchase. The recorder is that important to fishing success!

We've had several different recorders through the years and although each and every model had it's own little problems or highlights, each proved an invaluable aid in adding to our catch of fish. Every recorder works on the same basic principal: an electrical impulse is shot through the transducer and is sent back after striking the bottom or anything that happens to lay between the transducer and bottom.

The transducer is, in effect, a sending unit and a receiving unit combination. As the pulse is returned to the transducer it is received and forwarded to the recorder which, in turn, prints a picture on the graph paper. Actually, this "picture" is burned onto the paper by the stylus and that's what reveals what is below the boat.

You can generate a totally reliable picture of the bottom contour with just the flick of a dial and at the same time get a lasting impression on the recorder paper of fish, fish holding structure, baitfish or the thermocline.

There are many manufacturers of chart recorders and each offers a reliable unit at reasonable prices. It is up to you to select the unit that best fits your specific needs. Some recorders will read unlimited depths while others have only a limited scope.

Freshwater fishermen may not need a recorder that will probe depths of two or three hundred or more feet, but for sure the saltwater angler who plans to do a variety of inshore and offshore fishing will need this feature.

Our present chart recorder, the X-15 from Lowrance Electronics is a gem. With it, we can choose and pick the exact depth we wish to chart. Just by pressing the control buttons, we can focus in on a narrow 10-foot-wide band of underwater structure or we can get a full printout of everything that's under the boat from the surface strata to the bottom or a small part of the area beneath our hull.

Having a chart recorder and knowing how to use it made this catch possible for Pete Barrett and Mark Sosin.

All recorders work on the same basic principal. The transducer shoots out an electronic pulse which travels to the bottom and then bounces back to the transducer. Anything that is within the pulse is recorded on the graph paper in easy to read picture form.

Our unit has a grey line feature (as do many of the more popular recorders) which gives a separation of fish and bottom by printing a grey area below the actual bottom. This feature may not seem valuable to one who has not used a chart recorder, but once you have tried the grey line feature you will feel lost without it.

The grey line is also set by the mere flick of a dial. At full power the grey line is more pronounced but at half power or less it blends in with the darker readings that would normally appear if the grey line feature is not in use.

Some recorders have a paper speed adjustment. When you are running at high speed you really can't read fish or bait on the recorder, but you can get a crystal clear bottom reading. Under a situation such as this, we turn the paper speed down to its slowest speed so our recorder paper lasts a little longer. When fishing on the drift or hunting for structure we crank up the paper speed to its highest speed so our readings are clearer and more precise.

You will notice that it often pays to burn a little more paper . When you are fishing structure and are hunting for fish that may be inhabiting the area next to the bottom you will get much more clarity in your chart recording with the paper speed at high and even though you are using a lot of paper, it is worth the additional expense because it will mean more fish in the boat at the end of the day.

The sensitivity or gain is another feature that must be mastered before you can get the full value of your chart recorder. By turning the dial to the right, you increase the gain which, in turn, gives a stronger impression of

(Continued on next page.)

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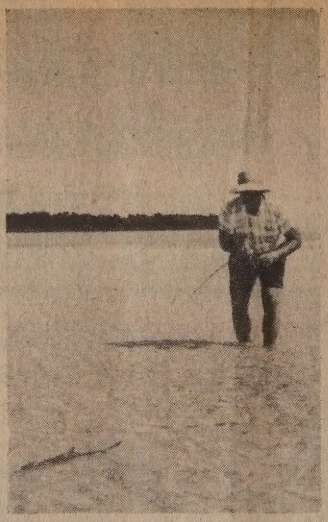

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the bottom or any fish lying between the hull (transducer) and bottom. Rotating the sensitivity dial to the left will decrease the power and will not give as strong an impression on the recorder paper.

An inner dial, the suppression feature will cut down on any interference you might incur when running the recorder with the sensitivity turned up to a higher setting. This feature is one of the most valuable items on any recorder and it must be set and reset as water conditions change throughout the day.

A good example of this is when you are running at mid to high speed. Too much suppression and your recorder does not give off enough power to generate a strong enough signal to make a print on the paper. By backing off on the suppression you increase the gain or sensitivity and your chart will become clearer and easier to read.

This is a standard feature on all chart recorders and it is one of the least understood. If you are in doubt as to how your sensitivity or suppression dials work, **read your owner's manual** until you know how to use these items from memory!

With the X-15 we crank up the sensitivity to three-quarter power and move the suppression dial only one or two stops as we work our way offshore. If the recorder isn't giving a clear image we move the suppression dial up a notch or two until the picture becomes clear. Generally, you will notice some clutter in the water when you have the sensitivity at half or three-quarter power and the suppression is only at low power. By increasing the suppression and decreasing the sensitivity you can clear most of the clutter from your chart recording. This is the recommended method for the X-15. It may be slightly different with other units, but all work under the same principal and should give similar results when operated in this manner.

For sure you will need some sensitivity when charting deeper waters than you will when working shallower areas, so keep this in mind when planning fishing trips.

The transducer is extremely important and should fit your specific needs. A narrow cone transducer is ideal for fishing deep waters, but is not practical for inshore situations where water depth may not exceed 100 feet. The narrow cone (some are no more than four degrees) give a view of a much smaller area of the bottom in shallow water, but does give a solid signal and a reasonable amount of scope when probing the depths. It is most useful for deep water fishing.

The wide angle transducer (11 degrees from center or 22 degrees from one side to the other is more suitable for inshore fishing since it does offer a wider viewing area in mid-depth areas. It is the ideal transducer for 90 percent of all fishing that's done along the North Atlantic

Seaboard where water depth does not exceed 200 feet. Anything deeper than that requires the narrow band transducer.

That's why some fishermen have two transducers installed on their boats. Both can be operated by the flip of a switch so it is possible to fish relatively shallow waters with the wide angle transducer and to then move off to deeper waters and utilize the narrow angle without having to install two recorders.

When you are plunking down five hundred hard-earned dollars for a fishing aid you can bet you'll want to get the most out of it that you can. By having the twin transducer installation you do gain some advantage and at a nominal amount of cash outlay.

As we previously stated, the picture you see on your recorder paper is etched onto the paper. It is not a printed picture and the stylus that burns the picture must be kept clean if it is to function properly. Some units will operate efficiently through several rolls of paper without needing a new stylus. Others such as the X-15 require a stylus change more often. With each roll of paper you get a new stylus and it is wise to use a new one each time you use a new roll of recorder paper. You'll see better charts by following the recommendations given by the manufacturer and with the X-15 unit it is recommended that the stylus be changed each time a new roll of paper is installed.

Transducers that are permanently mounted will collect growth and when this occurs they will not perform as well as they do when first installed. We generally clean the transducer by scrubbing it with a soapy solution. This removes most weed growth, but does not harm the transducer. It only take a couple minutes and your unit will continue to perform as it should.

Transducer installation is covered in another article, but the manner in which your transducer is installed will govern how good or bad your unit performs. Place the transducer too high and your readings will be cluttered due to the commotion caused by the boat propeller. And, conversely, put the transducer too deep in the water and you lose some of the scope near the surface.

On our Mako we set the transducer at the transom and put it down into the water about 3/4 inches. This keeps it below the prop wash, but not so deep that it picks up the surface commotion from the hull.

If you are not handy with tools, I'd suggest you have the unit and the transducer installed by a reliable mechanic. I've seen some butcher jobs done by would-be experts and I've also seen some very professional installations by some knowing very little about marine electronics. You can do a passable job by following the instructions given with the owner's manual, but if you are in doubt don't take chances: let a mechanic do the job for you. It may cost a few bucks, but it is money well spent!

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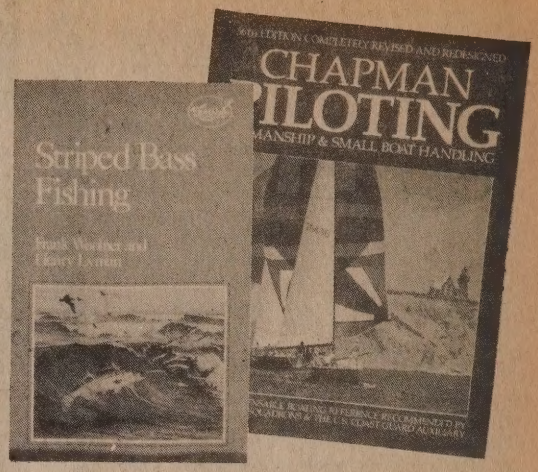

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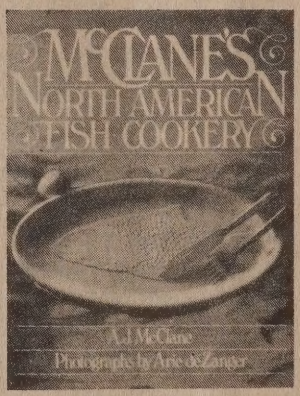

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JAMAICA BAY: THE WAY IT WAS

by Matt Ahern

I can't figure it. Let me think of certain events in my early fishing life and surely as the good Lord made those little apples, letters will come in inquiring about them. I received 27 letters last week, and of those, four readers wanted to know about Jamaica Bay fishing in the long-ago, did I ever fish there, etc. Not a bit unusual, except that all that morning before the mail arrived, I had been thinking about Jamaica Bay and those long-gone days.

So, I guess I should relate what Jamaica Bay meant to me as a kid. And in order to do so, I'll rehash some of the things I wrote about the Bay some years ago and add bits and pieces as I go along.

What began the first bit on old-time Jamaica Bay fishing was a letter I received from Lars Pederson of Brooklyn. Lars goes back a long way in the fishing game and he wrote an extremely interesting letter. Much of his missive dealt with the rugged codfishing conditions in his native Norway when he was a boy.

I learned two things from that letter. One: that old saying of iron men and wooden ships is indeed true. (I don't think I'd remain so avid a codfisherman if I had to suffer for my fish the way Lars did.) Two: that cod and pollock (called coalfish in Scandinavian waters—the pollock, that is) we catch on our side of the North Atlantic are much larger on the average than those caught in Europe. Lars also thought that our cod grow more rapidly.$

As I say, it was an extremely interesting letter and I wrote back and told Mr. Pederson so. I was glad for the opportunity to learn something of which I was unaware. Oh, yes...at the conclusion of Lars' letter I was asked if all my fishing in the old days was done only from party boats, because this is what I seem to write about most.

And that is what got the ball rolling.

The answer to Mr. Pederson's question is: no. I put in much time rowboat fishing in those golden days of my youth. Those 14 footers weren't called skiffs in those days. The only means of propulsion were a pair of oars—a double set if you went with a buddy. Outboard engines were scarcer than those proverbial hen's teeth then, and those in use were cantankerous beasts at best.

I wouldn't go aboard a rowboat so equipped no matter how good the fishing or how much time was saved by promise. Heck, I never minded rowing to the hotspots; in fact, I enjoyed it. At least I knew the old Armstrong motor was the most reliable of the two. Nine out of ten times the old-time outboard fisherman ended his day by rowing back, anyway.

I lived in Brooklyn in those days (ah, sweet memories!) and a great deal of this rowboat fishing was done in Jamaica Bay. And I'm here to say that that fishing was great! About the only bottom fish we didn't catch were such ocean dwellers as cod, ling, and whiting. But we caught all the others without much difficulty—even occasional school stripers (I did at one time catch a 32 lber. on a bit of sandworm while flounder fishing on a foggy September morning). I suppose one might say it was difficult not to achieve some success, even with the most basic of equipment.

"We would row into the middle of the Bay between Barren Island and Roxbury and then we'd drift with the tide."

Most of the better fishing spots were centered about where the Marine Parkway Bridge now spans the Bay. In its place was a passenger-carrying ferry, which ran between Barren Island and Roxbury on an hourly schedule. In summer the Frank and Helen McAvoy made daily trips from the Canarsie Shore to Rockaway Point. As you can imagine, with all this activity going on we kids had some scary times on mist and fog-shrouded days. But we took the chance, as all fishermen have a habit of doing, and we caught fish—always! I really can't recall a really poor fishing day in Jamaica Bay.

Those were the days when many fishermen made the tiresome journey out to Peconic for the superb weakfishing that was then available—about 1929. What many fishermen didn't know (or perhaps they did and didn't care) was that it wasn't necessary for them to make that long trip if they would wait a month or so until the cinder worms swarmed into the Bay. These worms were always pursued by hordes of ravenous weakfish; many of these weaks were those old-time tiderunners still dreamed of by many fishermen.

I did much weakfishing then—all of it at night. (The days were spent fluke fishing.) My companion on these nocturnal trips was another 15-year-old kid from the neighborhood: Jimmy Anderson. During school time, Jimmy and I fished on Friday and Saturday nights; but once school vacation time arrived, we fished as often as we desired—weather permitting.

We always tried to figure the tide as best we could because the less rowing we had to do coming back, the better. The reason for that is simply that we were pretty pooped by then.

We would row into the middle of the Bay between Barren Island and Roxbury (it was pretty "ghosty" out there sometimes), and then we'd drift with the tide (incoming or outgoing—it mattered not). We always "top-fished" for our weakfish. A short limber rod, a three-foot "catgut" leader, a light 1/0 O'Shaughnessey hook and a whole sandworm impaled through the head, and weighted with a split shot, composed our weakfish tackle. And with this simple rig Jimmy and I caught dozens of hefty weakfish just about every trip without one bit of difficulty.

It was heart-thumping fishing as a hooked weak zipped this way and that through the dark water. I sometimes think we lost as many as we netted. You can be certain that particular section of Jamaica Bay echoed with boyish screams of delight, and moans of despair when a large fish broke off. Jimmy held the record for us—he landed an 11 pound weak and it took about 20 minutes to do it.

As for fluke, they were always plentiful during summer and there was never a thought we might possibly have a poor day. Most of our fluke averaged around two pounds (we never saw a "short"), but we caught many doormats of 10 pounds and over

each summer. Killies were the bait and we used the standard fluke rig. Again Jimmy beat me out on the largest fluke when he landed a 13 pounder on a sand porgy. We never did beat that one. (I just realized that even in those days, as good as fishing was, we did our share of experimenting.)

I remember there was an extremely deep hole which was situated closer to the Roxbury shore than Barren Island. I guess it must have been at least 40 feet deep, and for the two adult sharpies who fished it regularly, it produced monstrous fluke. I also remember these fellows used huge strips of raw beef liver on a homemade gizmo fashioned especially to fish this bait properly. (I also saw this bait used one time on a party boat in the long-ago.)

While sea porgy fishing over a mussel patch near them one day, Jimmy and I watched one of those fellows nail a fluke they claimed weighed 18 pounds on their hand-held scale. Because these fellows caught so many doormat fluke each summer from that hole, there was no reason for me to doubt their word. (Jimmy said they were "full of baloney.) But if they said it weighed 18 pounds, then that's what it weighed. To me, it looked like 28. It was Jimmy's obsession that one day we would beat that fish, but we never did; never even came close.

I mentioned sea porgy fishing a minute ago. Many of today's fishermen will probably find it difficult to believe that these ocean dwellers would venture into Jamaica Bay, but they did. Often in astronomical numbers. (I'm sure they came into the Bay to spawn.) I recall that once you located the school, which wasn't difficult and no chum was required, you could sit in that rowboat and pull single and double-headers throughout the entire tide, some up to 2½ pounds, until you became arm weary.

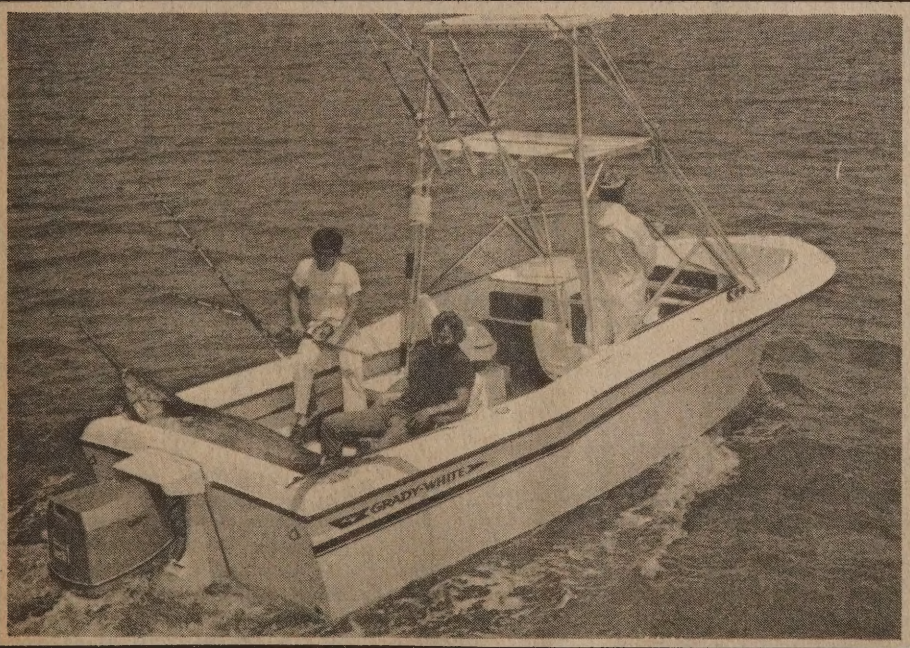
It was tricky fishing. Let a large power boat pass close by and that was the end of the porgy fishing, and nothing you would do would bring them back. The same applied to the tide. It mattered not what tide you were fishing, once the fish began to bite they continued to do so until the change of that tide. When that happened, that was it until the next day. Late June was the best time for this Jamaica Bay porgy fishing.

Jimmy and I caught occasional sea bass, but not many at any time. Most were small, averaging about a half pound. I don't recall having a bang-up day with sea bass in Jamaica Bay. Nor did I ever see a humpback taken from the spots we fished. However, the bay-fishing party boats such as Captain Casper's "Old Pal" that did wreck fishing, managed to deck some huge bass up to four pounds.

This also applied to the blackfish we caught. Most were under three pounds; our largest was a seven pounder which—ahem—I caught. Blackfishing was best closer to Barren Island, especially around the ferry slip. I'm sure there were plenty of blackfish there, but we kids just didn't know how to go about hooking them. Certainly we received plenty of healthy, hook-chomping bites; but I guess we were slow on the draw, or something.

Spring flounder fishing (late April) was so-so. Most of this fishing was done around the Pumpkin Patch and the Ruffle Bar. If the tide was abnormally high—full moon, storm, something like that—we would fish the south end of Yankee Channel. The largest fish were here most times; but they truly weren't big fish—maybe 1½ pounds tops. From our own experience, fall flounder fishing was never much in Jamaica Bay. I suppose there were good fishing spots for the sharpie, but we kids didn't know enough about those better areas to make it pay. But when it came to weakfish, fluke, and porgies, we two kids knew our stuff and we certainly took advantage of it to the fullest.

It was said even in those days that Jamaica Bay was polluted—just as the claim is made today. But you couldn't prove it to us and the hundreds of other fishermen who reaped a daily harvest. They tell me Jamaica Bay is less polluted today than then. Maybe so—far be it from me to argue—but if so, tell me, where are the fish?



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POCONO ADVENTURE

by Don Kamienski

Metropolitan area anglers find western style trouting within easy reach of home and budget.

As we were swapping fish stories a week or two ago at a local sporting goods store, the guy behind the counter asked if I've had the opportunity to try a little freshwater fishing lately. "Sure," I said, "I've just returned from a great fishing trip for multi-colored native brook trout where the main source of transportation to the backwoods stream was a pack mule." Looking at me a little puzzled, he replied, "I didn't know you made a trip out west to either Montana or Wyoming." The fact is, I didn't have to travel more than two hours from my home in central Jersey to enjoy the fun of a remote fishing adventure. All I did was to take advantage of a facility called Pocono Adventures on Mules, Star Route, Jim Thorpe, PA 18229.

Two years ago, A.J. Shoemaker opened this resort which has catered to hunters and anglers who wish to hunt and fish in the more remote areas of the Pocono Mountains. At first, Shoemaker thought of using horses to transport his clients to parts of the rugged 45,000 acres that surround his facility, but soon found that horses were not as sure-footed, cooperative, and friendly as were full grown mules. The mule—half horse, half donkey—is unfortunately the butt of several jokes about being stubborn and obstinate. The fact is, mules are sure-footed, versatile, friendly, and can easily gain you access to many remote areas which are impossible to reach even with a 4x4 vehicle.

As I helped saddle my transportation that fall morning, making sure that my fishing rods and tackle were safe and secure, I was somewhat apprehensive about what to expect during the upcoming trip (writers tend to use words like "apprehensive" when they really mean "downright scared"). Since I've never had the opportunity to look down a forest trail from behind a pair of mule ears, I had mental visions of all sorts of unpleasantries happening. However, after A.J. took the time to instruct us regarding such basic riding techniques as how to hold the reins; how to sit in the saddle to guide the mule up and down steep hills, how to trot, plus a few more items, I began to feel a little more at ease.

In a nutshell, the two hour ride to our initial remote trout stream was not only fun, but a great way to view the passing landscape at a leisurely pace. When mounted on a large mule, your eyes tend to be at least ten feet

A.J. Shoemaker fishes Stoney Creek for native brook trout. Notice his mule waiting in background to take him back to civilization.

above the ground. This height allows you to look over most of the scrub brush and small trees in order to spot deer and other animals. Since the scent of a mule tends to hide a human's smell, you can generally get extremely close to deer without spooking them. Pocono Adventures runs special deer hunting trips for those who hunt with a bow or with a muzzle loader rifle. The mules not only provide the transportation to some of the best spots for deer, but they also provide the hunters with a type of natural camouflage.

The first stream we fished was some two hours from our starting point. Getting to this stream was a matter of following a very steep ravine that was lined with wild rhododendrons. Some of the terrain we passed was so rugged with loose rocks that I kept looking for mountain goats to appear from behind an outcropping of rock. Since the mule under me was not burdened with slippery steel shoes, it took the terrain in stride, and even seemed to be enjoying himself on this deep woods jaunt.

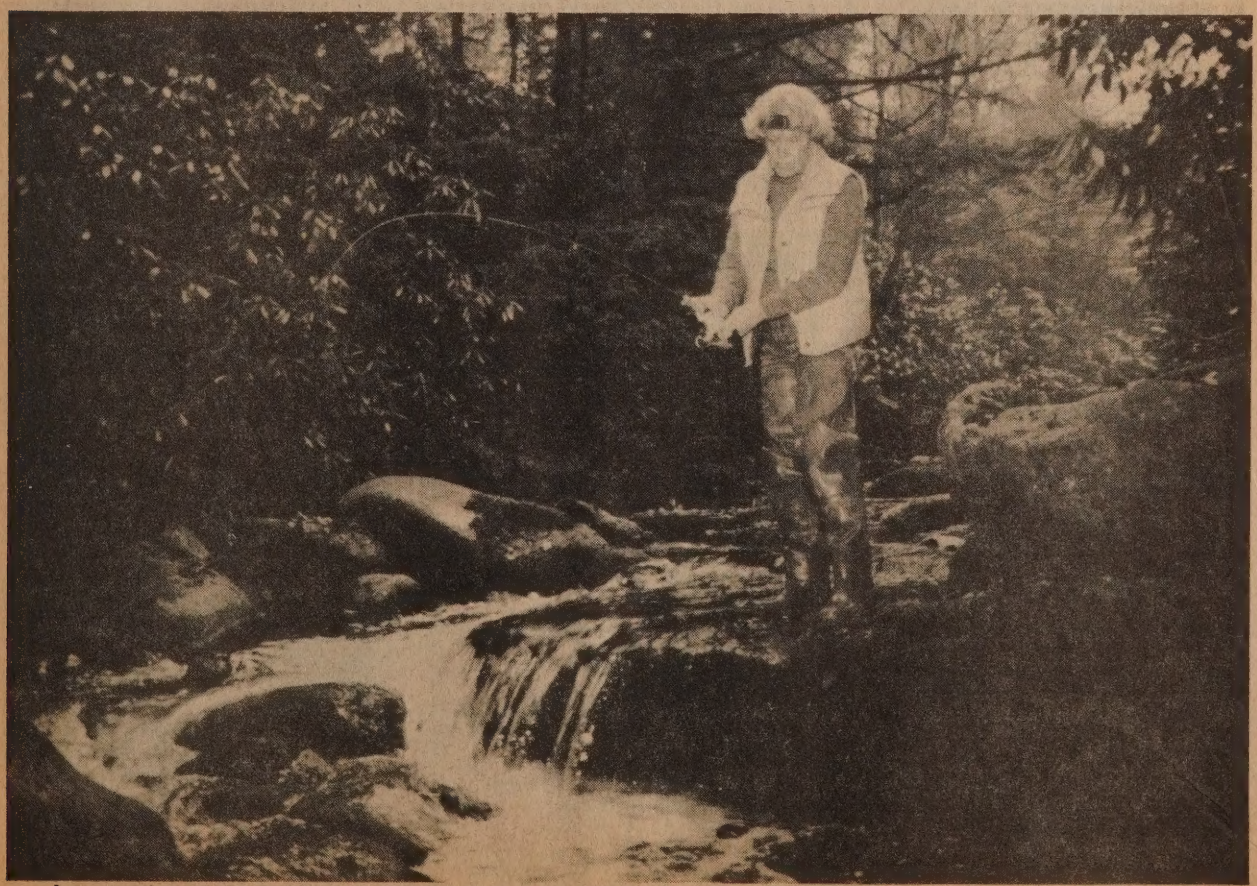
Stoney Creek was our first stop that day, and it was not more than 15 feet across at its widest part. This creek tends to be a series of picturesque pools and waterfalls over which gin clear water flows. At the bottom of the pools and behind protective rocks, native brook trout face upstream in hopes that a morsel of food will drift by. If you've never had the opportunity to see or catch a native brook trout, you've missed out on one of the joys of angling. Though not big, a 14 inch fish is a whopper; they will outfight any hatchery trout by a five to one margin. Once resting in your landing net, their vivid red dots along their side, and splashes of other vibrant colors make them one of the best looking trout that swim in our local waters.

On the advice of our wrangler guides A.J. and Kathy, we began working live bait in the deeper pools and in the more calmer pockets of water behind various rocks. It didn't take more than a few minutes for each of us to land our first native brookie from the ice cold water of Stoney Creek. Those anglers who really know how to work a weighted nymph along the bottom can expect to land (and perhaps release) more than two dozen brookies in a single day. If you're not used to fishing in small gin clear streams, you can expect a catch of half that size.

Since the brilliant colored trout we sought were small in size, the tackle we selected tended to match their size. The ultra-light spinning rods were five feet long and the matched reels held line in the four pound class. The fly rods were seven feet in length which can easily place a fly or nymph into likely fish pockets. A 6X tippet on a seven foot leader worked fine also.

In addition to small lightweight rods and reels, let me suggest a few items you should consider taking along if you decide to make such a trip using a pack mule. First, leave that 50 pound tackle box of yours at home. All you'll need is a small plastic box which contains a few size 12 hooks, some small split shot, a few CP Swing spinners (size #0), some weighted nymphs and some extra leader material. While you won't necessarily need waders, some type of rubber boot is in order as you wade the shallow stream. By all means, take along a pair of jetty spikes as the rocks along the stream are moss covered and slippery. A good pair of Polaroid glasses will help you spot the fish as you fish the stream with the sun in front of you. Finally, some type of sturdy rod caddy is also a good piece of equipment to bring along to protect your fishing rods. The caddy is strapped to the mule, and affords your rods some extra protection in the rugged terrain.

Whether you hunt deer with a bow or with a muzzle loader, or whether you just like to whet a line in an isolated trout stream, Pocono Adventures on Mules (717)325-2036) should be checked out. If you give them a call, they'll send you a free illustrated brochure of their facility. The trout fishing in the mountains of Pennsylvania can be especially good no matter the season. Getting to these streams by pack mule can really enhance your Pocono adventure for trout.



Any member of the family can enjoy a pack mule trip for remote native trout in an area that's close to home.

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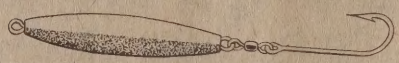

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East End REPORT

with Mrs. Lorry Mangan

Winter won't come! Inshore action shows signs of winding down in the area of bass and blues, however during the past week bass to 20 lbs, with very large bluefish remained in the Montauk area. Blackfish to 12 lbs. were caught in numbers at Montauk, Shinnecock, and off Orient. Flounder are slow to start, but have been reported at Montauk and Shinnecock. Apparently, a slight drop in water temperatures, no more than 2 degrees, is needed to start the codfish run. Some cod have been caught but dogfish remain a problem. A surprising number of very large dogfish remain. A surprising number of very large sea bass and porgies were caught at Montauk over the weekend.

MONTAUK

Joan, at **Captain's Cove Marina**, reports continued catches of bass and blues over the weekend, with mackerel, cod and blackfish taken at and near Block Island. The **Marina** will remain open until Christmas, and then close for a short time, will reopen after the Boat Shows.

Carl Darenberg of the **Montauk**

Allan Donadio made his first ever cod one to remember. The 50 pounder was caught on the "Viking Starship" during a Georges Bank trip.

High Tide Tables

How to use tide tables: To compute the high tide for the area you wish to fish, simply find the closest area on the conversion table. Add or subtract the hours and minutes as indicated from that area station above. Example: Shinnecock Inlet . . . −0 50 is listed under "On SANDY HOOK." −0 50 means you subtract 50 minutes from the times given for the SANDY HOOK STATION for the day you are going fishing. This is the approximate time for the high tide in the area. For low tide, add 6½ hours to this figure.

DAY	SANDY HOOK AM	SANDY HOOK PM	BREAKWATER HARBOR AM	BREAKWATER HARBOR PM	NEW YORK AM	NEW YORK PM	NEW LONDON AM	NEW LONDON PM	WILLETS POINT AM	WILLETS POINT PM	BRIDGEPORT AM	BRIDGEPORT PM	NEWPORT AM	NEWPORT PM	DATE
THURS.	6:10	6:30	6:55	7:10	6:45	7:05	7:35	8:05	9:45	10:25	9:25	9:55	6:00	6:20	12/6
FRI.	6:45	7:10	7:30	7:50	7:25	7:45	8:10	8:45	10:05	10:45	10:05	10:35	6:40	7:00	12/7
SAT.	7:25	7:50	8:10	8:30	8:00	8:25	8:45	9:20	10:35	11:15	10:45	11:15	7:25	7:45	12/8
SUN.	8:00	8:30	8:50	9:15	8:35	9:00	9:25	10:05	11:15	11:50	11:25	11:55	8:05	8:30	12/9
MON.	8:40	9:15	9:35	9:55	9:10	9:50	10:05	10:50	11:50	—	—	12:05	8:45	9:10	12/10
TUES.	9:25	10:00	10:20	10:45	10:00	10:40	10:50	11:40	12:30	12:35	12:40	12:50	9:30	10:00	12/11
WED.	10:15	11:00	11:05	11:35	10:50	11:40	11:40	—	1:15	1:25	1:30	1:40	10:20	10:50	12/12
THURS.	11:10	11:55	—	12:00	11:50	—	12:30	12:35	2:05	2:20	2:20	2:35	11:15	11:50	12/13

On Sandy Hook

STATEN ISLAND	+0 27
ATLANTIC HIGHLANDS	−0 01
Red Bank, Navesink River	+1 48
Long Branch	−0 34
SHARK RIVER INLET	−0 18
Shark River Basin	+0 27
MANASQUAN INLET	−0 12
Seaside Park	−0 33
Mantoloking bridge	+5 34
TOMS RIVER	+4 37
Waretown	+2 33
BARNEGAT LIGHT	−0 20
Manahawkin Bridge	+2 33
Beach Haven	+1 47
LITTLE EGG INLET	−0 01
Seven Islands	+0 12
Graveling Point	+1 05
Mullica River	+1 55
Grassy Bay	+1 08
ABSECON INLET	+0 14
Atlantic City Pier	−0 26
Great Egg Harbor Inlet	+0 12
GREAT EGG HARBOR	+0 44
CORSON INLET	+0 09
TOWNSENDS INLET	+0 06
HEREFORD INLET	+0 02
Grassy Sound Bridge	+0 45
Cape May Harbor	−0 02
Rehobeth Beach	−0 07
INDIAN RIVER INLET	+0 41
SHINNECOCK INLET	−0 50
Shinnecock Bay	+1 25
East Quogue	+2 45
Shinnecock Canal	+1 18
Indian Reservation	+3 05
MORICHES INLET	−0 56
Smith's Point	+3 28
Hart's Cove	+1 30
Pontunk Point	+3 35
Mastic Beach	+3 28
FIRE ISLAND INLET	−0 38
Democrat Point	−0 38
Coast Guard Station	−0 19
Fire Island Light	+0 47
GREAT SOUTH BAY	
Sayville (Brown Creek)	+3 39
Heckscher State Park	+3 20
Bay Shore	+2 23
Babylon	+2 12
Amityville	+2 21
JONES INLET	−0 19
Zachs Bay	+1 25
Seaford Harbor	+2 05
Freeport Creek	+0 34
E. ROCKAWAY INLET	−0 06
Long Beach Bridge	+0 19
ROCKAWAY INLET	0 00
Beach Channel Bridge	+0 38
J.F.K. Airport	+0 26

On Bridgeport

Lloyd Point	+0 08
Cold Spring Harbor	+0 08
Bayville Bridge	+0 13
Eatons Neck Point	+0 03
Northport Bay	+0 03
Norwalk Islands	+0 10
Smithtown Bay	+0 08
Cranes Neck Point	+0 05
Port Jefferson Hbr. entrance	+0 03
New Haven Harbor	+0 08
Mount Sinai Harbor	+0 05
Herod Point	−0 07
Mattituck Inlet	+0 05
Horton Point	−0 20
Truman Beach	−0 42
Falkner Island	−0 13
Sachem Head	−0 10
Branford Harbor	−0 07
New Haven Harbor entrance	−0 08
Milford Harbor	−0 07
Stratford, Housatonic River	+0 27
Shelton, Housatonic River	+1 36
Black Rock Harbor entrance	−0 03
Saugatuck River entrance	−0 01
South Norwalk	+0 10
Greens Ledge	−0 01
Stamford	+0 04
Cos Cob Harbor	+0 06
Greenwich	+0 02

On New London

Orient	+0 36
Little Gull Is. (Race)	+0 12
Greenport	+1 04
Southold	+1 43
New Suffolk	+2 26
South Jamesport	+2 32
Shinnecock Canal	+2 33
Noyack Bay	+2 05
Sag Harbor	+0 59
Three Mi. Hbr., Gardiners Bay	+0 21
Promised Land, Napeague Bay	−0 14
Montauk Inlet	−0 25
Montauk Point, north side	−1 13
Niantic	+1 20
Stonington, Fishers Is. Sound	−0 33
Noank, Mystic River ent.	−0 23
THAMES RIVER	
Smith Cove entrance	−0 01
Norwich	+0 12
CONNECTICUT RIVER	
Saybrook Jetty	+1 10
Lyme, highway bridge	+1 24
Essex	+1 38
East Haddam	+2 41
Higganum Creek	+2 54

On Willets Point

Little Neck Bay	−0 10
Execution Light	−0 06
Manhasset Bay	−0 01
Hempstead Harbor	−0 11
City Island	−0 03
Rye Beach	−0 28
Port Chester	−0 09
Mamaroneck	−0 08
New Rochelle	−0 24
Davids Island	−0 02

On Breakwater Harbor

CAPE MAY POINT	−0 10
Miami Beach	+0 17
East Pt., Maurice River Cove	+0 53
Egg Island Point	+0 33
Cape Henlopen	−0 05
ROOSEVELT INLET	+0 09
Mispillion River entrance	+0 33

On New York

Jersey City	+0 07
George Washington Bridge	+0 46
Spuyten Duyvil, W/RR bridge	+0 58
Ossining	+1 53
Peekskill	+2 24
West Point	+3 16
Newburgh	+3 42

On Newport

Sakonnet	−1 10
Tiverton (between bridges)	+0 21
Beavertail Point	−0 02
Prudence Is., Sandy Point	+1 10
Bristol	+1 10
Warren	+0 21
Nayatt Point	+0 12
Pawtucket, Seekonk River	+0 21
East Greenwich	+0 16
Wickford	+0 12
Narragansett Pier	−0 08
Point Judith Hbr. of Refuge	−0 07
BLOCK ISLAND	
Great Salt Pond	+0 05
Block Island (Old Harbor)	−0 14
Watch Hill Point	+0 44

Sunrise/Sunset

DAY / DATE:	RISE:	SET:
THU. 12/6	7:13	4:29
FRI. 12/7	7:14	4:29
SAT. 12/8	7:15	4:29
SUN. 12/9	7:16	4:28
MON. 12/10	7:17	4:28
TUE. 12/11	7:18	4:28
WED. 12/12	7:19	4:28

Moonrise/Moonset

DAY / DATE:	RISE:	SET:
THU. 12/6	3:19PM	5:12AM
FRI. 12/7	3:53PM	6:17AM
SAT. 12/8	4:34PM	7:22AM
SUN. 12/9	5:25PM	8:25AM
MON. 12/10	6:24PM	9:23AM
TUE. 12/11	7:31PM	10:13AM
WED. 12/12	8:42PM	10:55AM

Moon Phases

NEW	1st Qtr.	FULL	Last Qtr.
11/22	11/30	11/8	11/16

The Original Knight SOLUNAR TABLES

The schedule of solunar periods below will help plan your day so that you will be fishing good areas during the time when the fish should be most active. The tables are not a guarantee you will catch fish, however.

The major periods begin at the time shown and last for 1½ to 2 hours thereafter, and are in the bold typeface. The minor periods are shorter in duration and the lighter typeface.

	AM Minor	AM Major	PM Minor	PM Major
Thurs.	2:45	8:50	3:00	9:15
Fri.	3:30	9:35	3:45	10:00
Sat.	4:15	10:25	4:35	10:50
Sun.	5:05	11:20	5:30	11:50
Mon.	6:05	—	6:40	12:25
Tues.	7:05	12:55	7:40	1:25
Wed.	8:10	2:00	8:40	2:20
Thurs.	9:05	2:55	9:35	3:25

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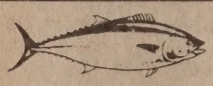

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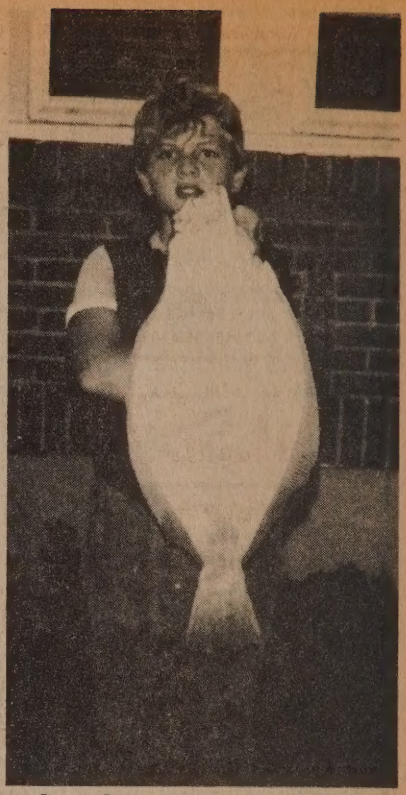

Greg Secor shows the 7.2 lb. fluke he decked aboard the Point Lookout based, "Capt. Bill" this summer.

Marine Basin told me about a nice catch of a couple of dozen good size flounder made on Sunday, by a private boat fishing just inside the Inlet. A few Stripers, with blues were also caught over the weekend.

Although Saturday's weather was not condusive to good fishing, a beautiful Sunday found hungry cod, sea bass and porgies eager to take the bait offered by the anglers on the **Viking Starship**. Although the trip was for codfish (40 were caught among the dogfish) the real surprise and treat was the mother lode of huge sea bass and giant porgies located by Capt. Mike Bock. Anglers caught bags of huge sea bass, to 7½ lbs., along with jumbo porgies, most around three pounds. The fishing was described as the best in 24 years! Apparently these fish are schooled up and will depart for their winter quarters soon if the water temperature ever drops. It is strongly suggested that you call the **Viking** office the night before you plan to go to Montauk to check weather and sea conditions.

Capt. John DeMaio had decent bass action on the **Vivienne** during the week, along with persistent bluefish. A bottom fishing charter with Dr. Sherer and his friend Jeffrey found loads of blackfish to 11 lbs. Capt. DeMaio is looking for a run of cod as soon as the water temperature drops a few degrees, and will keep the boat in the water a few more weeks.

The **Pronto** fished the Block Island area on Tuesday with Joe Rad and his friends, and Sunday with Carl Jessen Both days Capt. Mike Bentivegna Jr. and Capt. Ron Grandinetti (**Julie III**) located several hundred mackerel on both, with nine codfish as an added bonus on Sunday. The **Pronto** will be available for charter as long as the weather remains good. Capt. Mike predicts a run of cod next week since the water temperature has finally dropped to 51.5 degrees. Hopefully the weekend's full moon will pick up the codfish action!

Capt. Chuck Mallinson feels inshore fishing will wind down as soon as the water cools down. Stripers as well as very large bluefish were caught this week, as well as blackfish. The **Joy-Sea** is available for cod charters. The fish are late, but indications are for a good season as long as the weather remains good.

The **King Wayne** ended the season with a catch of 12 bass and a couple of dozen big bluefish for James Ekeillor of Alstate Insurance Co. on Wednesday, and a load of cod and blackfish on Sunday with a group from the Moriches Anglers Fishing Club (Center Moriches). 50 cod and 30 blackfish along with a few pollock and sea bass were caught fishing south of Block Island and at SW Ledge by 20 anglers. Apparently dogfish were avoided if fishing was restricted to

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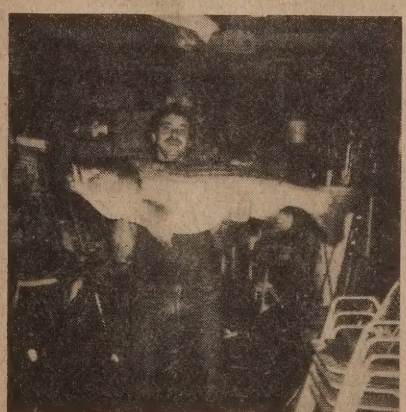
depths of less than 100 feet according to Capt. Wayne. Capt. Wayne extends holiday greetings to all his customers with thanks for helping to make the 1984 season a good one. The **King Wayne** will be available for charter in April of 1985, and already has booked many Saturdays. It is advisable to call now to reserve prime weekend date!

SOUTH FORK

The **Wilhelric** did not sail on Saturday because of bad weather and unfishable sea conditions. However, Sunday's trip proved that the blackfish are still there and eager to be caught. Bill Sutorius of Whitestone took the pool with a blackfish of over 12 lbs., the largest of 14 in his fishbox. Dave Roys of Selden, a regular on the boat, accounted for 16 blacks, while Pedro Loran of Long Island City, another regular, caught 13 blacks. Capt. Lach informed me that the **Wilhelric** is planning to sail for blackfish next Saturday and Sunday. He advises that you phone him the night before you plan to go to check on weather forecasts and probable sea conditions.



LIF reader Bob Iannaccone hefts a 42 lb. striped he landed at Marine Parkway Bridge on a bunker chunk back in July.

Occasionally, during a fishing season, one hears complaints that a captain will not sail "just because the wind is blowing a bit." It is disappointing to make a long trip early in the morning (or sometimes the middle of the night) only to find that the boat is not going because of weather conditions. It is to the captains credit that he stays at the dock in bad sea conditions, conditions which might endanger the safety of his passengers, and which he knows will not produce fish. The wise fisherman will call the captain the night before the trip if weather forecasts indicate a blow. A reputable captain will not take out his boat in unfishable conditions for the sake of making a few bucks. For this he should be commended not cursed!

Thom from **Speck's Bait & Tackle** reports some flounder action at the

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Basket in Shinnecock. Best catch was 28 fat flounder at Buoy 17 during a calm spell this week. Thom will have a supply of worms and clams for the weekend as well as the last of the green crabs. A December sale on all fishing items is taking place, just in time for Christmas shopping! The store will be closed on Wednesdays, call for winter hours.

Corr's Fishing Station in **Hampton Bays** heard of some flounder activity in the Basket and in Heady Creek. An ample supply of worms and frozen clams will be available this weekend.

The **Jenny Rose** will sail for cod on Saturdays and Sundays at 8A.M. this month. It is adviseable to call the night before your trip if the weather is questionable.

Mickey Altenkirch reported a slow down in flounder action in the canal this week. However a large catch of blackfish was made on the Bridge Wreck (ocean(on Wednesday and reported to **Altenkirch & Son**. Bill Imperial fished on his boat, Blue Baron, with a bushel of skimmers for cod. He was unable to get the bait to the bottom because of furious black fish action. Largest black boated was 6 lbs. 13 ozs., too many to count. No dogfish were around, also no cod that day.

South Shore REPORT
with Fred Golofaro

Flounder fishing perked up, particularly in Moriches Bay this week as water temperatures finally began to drop to the liking of the winter flatties. There were some signs of cod making a move to open bottom but the bulk of this action remains on the wrecks. While there are still fish to be caught, reports are lacking for the simple reason that few anglers have been out on the water.

MORICHES BAY & INLET

Flounder fishing in the bay continued good as of last Sunday. The few anglers getting out managed to score well at Haven's Point and inside of buoys 41 and 42. A report from **L & M Marine** in **East Moriches** told of Ron Raynor and Jim Osborne who teamed to take 60 big flatties from 1 to 2½ pounds at Havens Point on Saturday. Heavy chum remains the key for the better scores. The pair used worms and had all their action on the first half of the ebb tide.

GREAT SOUTH BAY/ FIRE ISLAND INLET

Still a few flounder being picked from the local docks according to Paul Graniello of **J & J Tackle** in **Patchogue** but boatmen have the obvious edge. Paul had reports indicating good action this past week in Moriches Bay and also in the hole just west of the Smith Point Bridge. Local flounder reports aside from the docks were scant.

Al Colban of **J & R Sports Center** in **Oakdale** spoke of a quiet week on the flatfish front locally. He did receive a couple of good reports from Moriches Bay however. He also noted that a couple of shore casters had taken a few blackfish near the old construction dock at Oak Beach but bait re-

Mike Ferrara live-lined this 38 lb. striper and a trio of big blues just outside East Rockaway Inlet back on November 10th. Photo courtesy of Beckmann's Tackle in Lynbrook.

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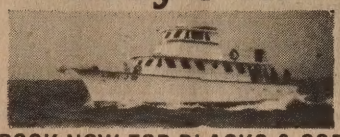
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mains a big problem for tautog anglers. The only bass news concerned a few shorts from the Lilco plant on Rebels. For freshwater fans, there are a fair number of trout in the 9 to 14 inch range being taken out of the tidal reaches of the Connetquot. Night crawlers are the ticket.

Over at **Captree**, Capt. Carl Passaro of the open boat **Miss Captree** reminded that he is now sailing daily 5AM for cod. He spoke of a fairly decent pick of cod on the wrecks but was more enthused about Sunday's showing of cod on open bottom. The skipper noted that one drop produced 18 cod and that the number of dogfish on open bottom has diminished considerably. Most of the cod fall into the 6-18 pound range with the pool each day around the 20 pound range.

Capt. Gordon Roman of the **Captree Queen II** said that despite a slight decline in the cod action Saturday and Sunday the boat still managed between 40 and 60 cod each day. The fish average 12 pounds and range to the mid 20's. Gordon noted that while the bulk of the fishing is still being done on the wrecks, dogfish are on the decline and he expects that open bottom action should improve noticably by the end of the week.

From the **Capt. Scotty 3**, Capt. George Tweedy said that the cod action has lacked some consistency with catches ranging anywhere from 30 to 65 cod a day for the boat. Average weight is around 12 pounds though there was a 32 pounder taken on Wednesday's trip and a 34 pounder on Friday. Action remained centered on the wrecks though this could change shortly.

A report from the **Babylon** open boat **Miss Babylon** indicated some good flounder action this past week in the State Channel at Gilgo. Some trips saw scores run as high as 25 to 30 flatties per man. On Friday, Joe Lang and Tony Eser teamed to take over 60 keepers. Some of the flatties have been big with a few fish pushing the 2½ pound mark. The boat will continue on the flounder chase as long as the bay remains free of ice.

Mike Andreani of **Lindenhurst Bait and Tackle** noted that there has been some very good flounder fishing in the west end of the bay with some particularly good scores coming from the Squaw Island area. A few 40-50 fish catches and one of 90 made during the week here. On Tuesday, one customer showed a catch of 45 flatties made in the State Channel at Lindenhurst. Heavy chumming has been the key to the better scores. Mike relayed word that a friend of his had been taking some sea run browns to 17 inches in the Connetquot on nightcrawlers.

From **Edelman's** in **Farmingdale**, Frank Pristera reported an open bottom catch of cod for Joe Ferrari fishing open bottom near Cholera last Sunday and Monday. Joe totaled 15 cod up to 15 pounds. Frank indicated that there are still some blackfish being taken on the Fire Island ocean reef but acquiring the proper crab bait is now a real problem. Clams catch a

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West End REPORT

with Stu Miller

Codfishing continues to be fair to very good in this area, with fish still hanging in the wrecks. Through this past weekend, dogfish dominated open bottom but that should be changing shortly. Fall flounder continue to be picked by the flattie fleet.

WEST END BAYS/ JONE'S INLET

Out of Freeport, the **Starstream II** found the weekend a bit tough due to wind and rough conditions during most of the latter part of the week. However, the skipper said fares picked away and a few fish were had on every drop. Wrecks, rocks, stone and mussel beds are being worked and fish are averaging 1o to 15 lbs. Pools are being taken by 20 to 25 lb. fish. The water is still warm as evidenced by a few sea bass being taken everyday plus a few ling. Things are changing now. A good shot of cold weather should give the codfishing another boost.

Aboard the **Captain Al**, fishing was

few fish. Bob Santiago who has been working the bottom near the 3rd pole south of Lindenhurst Town Beach, has been scoring well with flatties all week. Heavy mussel chum and/or clam chum and worms has been the ticket.

Ed Puzio, his daughter Karen and Jim and Bruno Graliec with a load of fluke taken on the flats bordering Reynolds Channel back in September. Photo courtesy of Ed's Fishing Station in Point Lookout.

Bernie Gaffney displays a pair of big blacks he decked back in October aboard the City Island open boat, "Apache."

Thirteen-year-old David La-Russo and his 10-year-old brother Jeffrey, teamed to take this 24 lb. striper on a mackerel chunk off of Mamaroneck. Subscriber photo.

also a little tough this week according to the skipper, with the 50 mph winds Thursday that scattered the fish off the wrecks. Things did pick up a bit again on Friday though. Friday, Saturday and Sunday saw catches of 40 to 50 cod each day on the boat. Saturday's pool fish was a 42 lber. Al said there are definitely a good number of cod around, and they began settling in again on Sunday PM. Al feels the codfishing should improve greatly by this weekend if there are no storms this week.

Word from the **Capt. Lou Fleet** said flounder were a good item on both their full and half day boats all week long. Aboard the full day boat Monday saw Lou Franco of Woodside with 56 flatties, Irv Waldman of Oceanside with 43 and Rick Hough of Bellmore with 46. On Wednesday John Ronston felt 37 was a good number to put in his cooler while Frank Tobitsch of Franklin Square put away 48. Aboard the half day boat, catches were better on the PM trips than on the AM trips, which were quite decent themselves. High hooks have been in the 30s.

NEW YORK BIGHT

From **Mike's Tackle** in Sheepshead Bay across from the fleet, Wee Willie told us of very good blackfishing, fish 3 to 8 lbs. at 17 Fathoms and Sea-Bright. Cod has been fair to good with the **Betty W. III** bringing back some nice catches. A group of 3 pals fishing on a BAY CHARTER totaled 61 cod to

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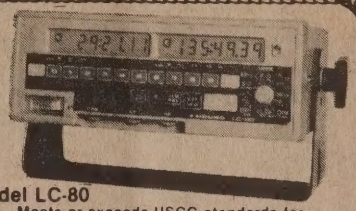

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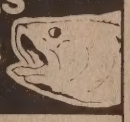

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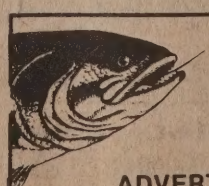

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33 lbs. fishing a wreck due south of Cholera. Captain Clark bagged a 33 lber. and Frank Cusma was high hook with 27 cod.

We learned from Captain Butch of the **Zephyr** who is now flounder fishing, that Saturday was a very good day with fares catching anywhere from 15 to 72 flounder. Mike was high hook with 72, fish up to 1½ lbs. Sunday was a little slower but fish were larger, most running 1 to 1½ lbs. Incoming tide was best and Jamaica Bay was the spot. They also had 2 sea bass and a sea robin, evidence of the late season. Butch says you've got to work for the fish and be patient on some days, especially for the larger fish. Lots of small stuff around said Butch.

North Shore REPORT

with Marty Garrell

With most North Shore tackle shops and fishing stations closed up tight there was little to report from this area. There were still good concentrations of bass off of Eaton's Neck but nearly all were shorts. Also still some blackfish for the catching off the Island's North Fork but few people have been making the effort.

Chuck Schloss shows the 22 lb. striper he caught from a Rocky Point beach in October. It was taken on RefFin-Red Gill combo and weighed at Rocky Point Fishing Stop.

Surf REPORT
with Fred Golofaro

Little developed in the way of surf action this past week and it wasn't for any lack of casters. A fair number of surfmen continued to work the Island's beaches but most did nothing or were content to watch fish working well out of casting range. Most called it quits by the weekend. Several casters closed their season on a positive note, timing their trip out to Hither Hills just right. According to Paul Graniello of **J & J Tackle** in **Patchogue**, Billy Kobel and Ozzie VonHelmond along with 2 other casters put away nearly 40 big blues along Montauk's sand beach on Tuesday. The fish ranged up to 17.10 pounds and all fell for bunker chunks. Billy did cull an 18 pound striper from the spot on a Bomber in the early AM. Only a couple of blues came from the same area on Wednesday. Late in the week several casters reported schools of fish working the surface but well out of casting range.

Similar reports of fish on the surface but out of casting range came from the Fire Island area this past week. Only one report of anyone actually taking fish came our way. According to Mike Andreani of **Lindenhurst Bait and Tackle**, one caster reported taking four blues on smelt bait at Cedar Beach. This was early Saturday morning at low water.

Before putting the wraps on this year's surf column, there is one significant catch that is deserving of mention. Although not a local fish, Joe Szabo's 70 pound cow taken on Block Island Thursday night and weighed at Twin Maples should foster some pleasant dreams for casters over the long winter ahead. Also, thanks to all those who contributed information to this year's column and a happy, healthy Holiday season to all.

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31' SILVERTON 1981 Tw. 225 FWC, 214 hrs. Immaculate; never fished. Loaded. Winter storage paid up. $44,000. Days: 212-255-5454. Eves: 516-842-1294.

SEA OX 17-23', CC & Walkarounds. Phoenix 27', 29' & 38' in stock. Johnson motors, 2-235 hp. Most models in stock. You'll love our prices. STEIN'S BOAT & MOTOR SALES, Sayville, NY. 516-567-3313.

16' Fiberglass Bay Boat, built 1982. Airex flotation, swivel seats, rod holders. Many extras. 40 hp Evinrude electric start & generator. Gas tanks & trailer. $2200. Days: 516-535-2984. Eves: 516-364-2553.

19 BARTENDER
MaineBuilt 1983, 1984 40 hp Mariner. Rough water boat. Will demo. Eves: 698-2326.

42' Hatteras, VT 903s
31' Columbia tower. Hot to sell
31 Bertrams-several available
32 Blackfin 3208T cats, tower
21' MFG, open sport
We need listings. We find boats for you at no cost to you.
32' 1953 Custom Gilliken Flybridge, wood
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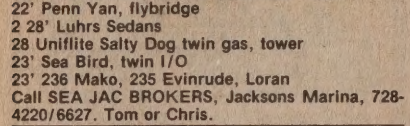
2 28' Luhrs Sedans
28 Uniflite Salty Dog twin gas, tower
23' Sea Bird, twin I/O
23' 236 Mako, 235 Evinrude, Loran
Call SEA JAC BROKERS, Jacksons Marina, 728-4220/6627. Tom or Chris.



26' L.I. SKIFF
VERITY TYPE MODEL. Built in Maine. 3/4" cedar planking, steam bent oak frames. Bronze & copper fastened. 70 gal. fuel cap. Auto & hand bilge pumps, 160 hp Chevy, FWC. Running lights, horn, Danforth compass, engine instruments. Hydraulic steering, Morse controls. $15,000 FOB Tenants Harbor, Ma. Other models 24'-32', diesels avail. L.I. Sales Rep, 516-698-2326 Eves.

FOR SALE: 28' Pickerel, V-bottom Sharpy, 150 hp elec. Mariner. Good bass or work boat. Big & fast. $9000. 516-725-3267 after 3PM.

Pair of Cummins V-555M, 240 hp models. One has 1800 hrs; other has 1200 hrs. Good running cond. Best offer. Eves: 516-599-4325.

78 WINNER 21', cuddy, 170, FWC I/O. Trailer, power winch, CB. Many extras. Mint. $8300. 516-472-4434.

SEA RAY
1978 Weekender 24'. Full electronics, new canvas/camper back; stand-up head. Low hrs. Fish wells. Excl. cond. $13,900. 516-378-8629.

1983 SEA CRAFT 23' Sceptre cuddy, 1983 200 hp Evinrude, 17 hrs. on boat & motor, blue acrylic canvas covering 7' of cockpit w/6' headroom & drop curtain; 15 hp Evinrude 1983 unused. Depth finder & VHF, 3 bait wells, dual batt., 2 pumps, 144 gal. tank, 1984 6000 lb. Float-on trailer w/dual disc brakes unused. Boat & motor mint. Will give warranty. Everying like new. $25,000. Eves: 516-883-9311.

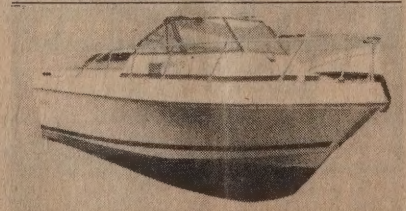
1981 TOPAZ 24' cuddy cabin I/B 350 OMC FWC. Full canvas. Low hrs; like new. $15,500. 516-587-6562.

AQUASPORT 17'-28'. MARINELAND—the small boat specialists. Long Beach, 516-889-5000. Mattituck, 516-298-4020. Bronx, 212-824-4000.

BOSTON WHALER 17' w/trailer. Asking $1200. 674-3358 any time. Will store for winter.

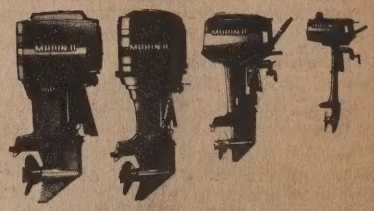
ONLY $5995!
18' STEIGER Craft w/50 hp Mercury elec. start. 21' Model also avail. Commercial & pleasure models. STRONG'S MARINELAND, Rt. 25, Mattituck. 516-298-4020.

"REGINA-M" CHARTERS. Flounder, fluke, bluefish & shark. Fast 22' mini-Sportfisherman, CG licensed 1-4 passengers. Latest electronics & custom tackle. Bay/Ocean fishing from Island Park. Inquire about reasonable rates. Beginners welcome. CAPT. PETE MIKOLESKI, 212-306-3729. After 6PM: 212-478-4133.



1980 FIBERFORM Walkround cuddy, 170 FWC Merc. Great fishing machine. $8995. 783-2628.

42' USCG Inspected Vessel, 36 pass. capacity. Drydocked May '84. Now fishing daily. $25,000. After 7PM: 516-475-0604.



1984 MARINER OUTBOARDS
2-$310; 4-$510; 5-$630; 8-$780; 9.9-$1040; 15-$1140; 25-$1350; 30-$1400; 40-$1550; 50-$2075; 60-$2250; 75-$2850; 90-$2950; 115-$3650; 150-$4250; 200-$4700. Prices incl. delivery to you. Only NJ residents add 6% sales tax. SPORTS MARINE, 201-736-3909.

WANTED: Johnson Evinrude Outboards. Any cond. Will pick up. Used parts available. 516-981-6487.

1972 21' T-CRAFT 100 hp Johnson, power tilt, compass, CB, Ray Jeff depth finder. Auto. bilge pump. All accessories. Excl. cond. Will Demo. $2900. 516-798-0352.

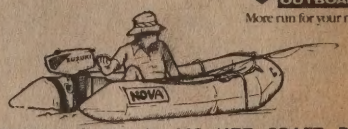
1977 22' CRESTLINER I/O 260 hp Mercruiser. Excl. cond. 90 gal. gas tank. Loran, paper recorder, Sea Temp gauge, VHF, gin pole. Many, many extras. $11,300. 212-343-5226.

SHAMROCK Keel Drive Inboard 20, 26 & new 17', 4 cyl. FWC 130 hp. Introductory Special-$11,995. SOUTH SHORE BOATS, 516-288-2400.

1984 STARCRAFT 21' Mariner, 90 hp Evinrude, galv. trailer. Loaded. Dealer Demo. Save. DAVE BOFILL MARINE, 516-283-6736.

1979 F.L. TRIPP 22' Complete Angler, 305 C.I. FWC I/B. Forward & stern controls. DF, VHF. $14,950 negotiable. After 6PM, except 11/3/84-11/12/84. 765-5675/5395.

SUZUKI OUTBOARDS
More run for your money.



SUZUKI Outboards—MC KEE CRAFT Boats. INFLATABLES: Sea Eagle, Nova & Ampac. Summer dockage—winter storage. KREMER'S BOATYARD, Seaford. 516-221-8877.

1976 PROLINE, clean. Center console, 1983 Johnson 115 hp. Canvas, CB, tach, 1984 paper readout, etc. EZ Loader trlr. Electric winch. $6700. Eves: 516-981-0711.

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MAKO

Grover built DIESEL CUSTOM DIESEL POWER
AL GROVER'S (516) 378-0510

ALL 1984 EVINRUDES—Sale prices w/extended warranties. MARINELAND, Long Beach, 516-889-5000.

SPORTCRAFT—15' thru 30' in stock at fantastic savings. Immediate delivery. HOBBY LAND MARINE, Hampton Bays, NY. 516-728-4313.

MAKO 224. Must sell. Offshore equipped w/twin 85 hp Evinrude, power tilt, SST props, stainless steel T-top. Electronics box w/Loarn, VHF, chart recorder, outriggers. Full gauges. Excl. cond. $11,800. 516-422-3665/3269.

30' CHRIS CRAFT TF 1976 T250s. Canyon equip. Full electronics. Boat redone in '82; must be seen. $38,000. 516-567-2729.

1978 AQUASPORT 19' Family Fisherman, cuddy, 140 hp Johnson. $6900. Very good cond. 516-728-3797.

CARBURETORS, starters, alternators. Rebuilt on premises. Free bench check. Same day service. CRAFTSMAN, 268 Rt. 109, Farmingdale across from Republic Airport. 516-752-1259.

1968 30' CHRIS CRAFT Skiffs-2. Diesels 4-71 & 6-53. Low hrs.
1965 36' Steel/Lobster-work, GM 6/71
1978 26' Glass Grover, 85 hp Perkins diesel. Mint
1960 42' Bolger Canyon Fisherman, twin Cummins. Loaded.
1968 40' Columbian, twin Cats. Canyon ready
1981 26' Fortier 200 Perkins. Loaded; mint
1969 33' Lobster boat, GM 4/71, Hauler
1951 43' Wood Stern Trawler, GM 6/71
1961 41' Hatteras Twin GM 6-53's, Super 6 man charter loaded w/electronics
2 - USCG Cert. Charter 45', GM 6-71. Ready to go.
1970 Dyer 29' Twin Gas, new power. Clean.
1969 31' Wood Charter Sportfisherman, 155 hp diesel.
1968 43' Egg Harbor Fisherman, twin GM 8/53. Loaded w/extras. Clean; low hrs.
KARP MARINE AGENCY, SEABOATS, 516-581-3308.

42' Custom built Charter boat. Fully equip. to fish. 671 GM Diesel. Must sell; make offer. Days: 288-9126. Nights: 728-0895.

MAKO 19' 85 Evinrude. Both excl. cond. Bimini top. Graph recorder, CG pkg. $4500. 718-891-3491.

18' BOSTON WHALER OUTRAGE, 150 hp Evinrude, Cox trailer. 1st prize in Arthur Smith Si-Tex Tournament. Brand new. Fully equipped. Si-Tex VHF, recorder & loran. Call Jim for best price. 212-634-9568.

82 WHALER type 13' 6" 40 Marineer trailer, CG pkg. Baitwell, bilge, extras. $2600. 516-931-2168.

36' FLYBRIDGE Sportfisherman, carl tank twin 392 FWC Palmers. Bimini. Full electronics. Mint. $24,990. Ask for Fred. 516-587-1482.

1958 EGG HARBOR 31' F/B S/F, 2 Chryslers, rebuilt 6-84. Radios, DF, chair. Sleeps 4. Dockage pd. for winter. $7500. 516-981-3053.

1982 45 HP Chrysler O/B, elec. start, control arm. Immaculate. Used one season. $1200. Eves: 212-645-3314.

14' MIRRO-CRAFT Alumi boat; steering & controls; 6 hp Johnson. $506-581-0077.

1982 27' Sportcraft, Volvo 2esel. Every option.
1978 14' McKee Craft, 65 hrysler, 1983 trailer. Full canvas, bilge pump. $
1977 18' Fiberform, OMC. Anxious to sell. Clean.
1983 Sportcraft 17' center ole, 1984 Yamaha 90 hp. Excl.
PORT OF EGYPT MARI INC., Main Rd., Southold, NY 11971. 765-2

24' GRADY WHITE 1979 shore cuddy cabin, 225 hp Mercury 1982; 15 hvinrude, 1981; VHF CB, digital & print-out reor, AM/FM stereo, SW washdown, twin battersize tank. Clean boat. $15,500. Mon-Fri 9APM: 516-484-2233.

FOR SALE—1983 Sea D 25'. Must sell. DF, VHF, CR. Full canvas; wdown pump. Immaculate. $23,990. 516-798-47 Sunday: 567-7905.

MUST SELL: 1979 Gradyhite 240 Offshore, 200 hp Johnson. Tower, fullectronics. Loaded! In water. $14,000. 516-944-9.

1975 Evinrude 135 hp. y good; in use. Compl w/controls. Will Demo. 50. 516-586-4805.

MAKO EXPRESS For le. 1980 Custom Hawk, 32' incl. pulpit, 11' 9"eam. Very stable Sportfisherman, twin Volve esels, new Foruno radar, micrologic Loran, Lowrce X-15A, VHF & encl. 2nd VHF, 2nd recorderplus Seatemp, Epirb, Lee outriggers. Rockawafighting chair. Extras. Montauk proven, fishiller. 914-834-8661 After 8PM. NOW IN FREEPRT.

INVENTOF CLEARANCE
Eddie's gone crazy—ock his prices:
Grady White 204C ovnighter
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See the all-new 249 Fherman 1985 Model
1983 206 Islander 2.6 tr Seadrive-$22,900
1983 227 Seaferer, OMC 170 I/O. Extras-$19,750
1983 190 Tarpon, 115 p, T/T. Extras-$12,300
1981 190 Tarpon, 100 p Johnson-$8950
Privateer 18' Closed bw
Privateer 20' center nsole
Privateer 21' 6", 2' transom. C/Console or wheelhouse
Privateer 21' 6", 25' transom
Privateer 21' 6", cabn & 25" trans.
1984 Privateer 21' 6" I/O Volvo C/C. Extras-$15,500
1983 16' Privateer C/C, windshield over-rail 35 hp Johnson
1983 Dell Quey Dory11' 25 hp Johnson-$3975
1983 Dell Quey Dory17', Helm w/s rail, flip-flop, ice chest seat, compass, 4 S/S R/H, lights control pkg. 70 hp Johnson O/B. Clearance. $7995.
1983 Glass port 17' 5" Ski Boat. Rocket ship w/140h T/T Johnson, incl. trailer. Loaded w/standard features. Overloaded w/extras. Must sell at $10,900.
1980 Chris Craft Scorp 21 - 21' I/O 188 Merc. Completely recond. & new canvas-$13,995
1976 Marquis 19' 115 hp Johnson; canvas-$3600 Neg.
13' Dell Quey 1983 35 hp Johnson, Swivel seats & benches. Full Bow, custom spray hood, rod holders-$4300
1979 Mark-O C/C, 1981 Johnson 55 hp. CG Pkg. Compass, chart rec.-$5175
1975 Marquis—Mint. New 1982 Johnson 90 hp-$4595
Lots more used boats. Come in and see and save.

EDDIE'S MARINE SERVICE CORP., 210 Bch. 2 St., Lawrence, NY 11691; 212-327-3168.

1981 17' BOSTON WHALER 70 hp Johnson w/new power head with 0 hrs. Very clean. $7995. 783-2628.

SEACRAFT Seafari 20. Super economical. 140 hp Mercruiser, new elbow & manifold in '83. Outdrive rebuilt in '83. New water pump in '84. New full canvas & cushions in cuddy, fold-out mini-galley. Dual batt., recorder & radio. This boat has been meticulously maintained & is in Bristol cond. Asking $8100. John. 516-725-4378.

SALESMAN'S DEMO: 21' HydraSport center console. Mariner 200 hp oil injection motor & galv. EZ Loader trailer. Entire rig in absolute showroom cond. All 1984. 20 hrs. use. Priced to sell! 516-431-5061/298-5800.

EVINRUDE

NEW 1984 EVINRUDES 1984
2-$312; 4-$496; 6-$680; 8-$780; 9.9-$998; 15-$1100; 35-$1500; 50-$2295; 70-$2690; 90-$2830; 115-$4000; 140-$4200; 150-$4400; 185-$4800; 235-$5200. ELECTRA MARINE, INC., 610 Merrick Rd., Lynbrook, NY 11563. Scott & McCulloch parts. FOB/H. WI. 516-599-3003. We ship anywhere.

BOATING EQUIP.

RADAR, Loran, autopilots, VHF, SSB, fish recorders. Sales & service most major brands. Custom installations. MARITIME COMMUNICATIONS, INC., 377 Woodcleft Av, Freeport, NY. 516-623-4421.

Electronics Pkg: standard VHF, Cobra CB, Mecca 8" white line chart recorder. Complete pkg. only. Make Offer. 516-567-9249

COMPASSES—COMPASSES—COMPASSES
Remember, if it has anything to do with compasses at all, give me a call! Huge inventory of Ritchie compasses. Expert installation & adjustment. Authorized repair service. I also carry a complete line of binoculars, sextants, clocks, barometers. JENS JACOBS NAUTICAL SERVICE, 516-757-7169.

GEMTRONICS Chart recorder, Model G.T.103: white line w/flasher, transducer, instruction book. Zero hours since factory service. $185. Eves: 212-324-4627.

TOPSIDER Mocassins-$29.99. Add NY tax & $2 shipping. BURCK, 526 City Island Av., Bronx, NY 10464. 212-885-1559.

TRAILER HITCHES—The most complete Draw-Tite line of Class I & II hitches in stock on Long Island. Sales, installations & service. TOM CASH WELDING, Lake Ronkonkoma. 516-JU 8-6143.

MICROLOGIC ML-3000 Loran C w/full function remote. Used just over 1-season. Incl. coupler & antenna. Excl. cond. Asking $1200. Eves: 516-599-4325.

CUSTOM MARINE WOOD WORK. No job too small. Teak step pads, instrument enclosures, cabinets, etc. After 5PM: 516-623-1639.

DUAL STATION LORAN: Raytheon 3000 & Navtech 1000 combo. Check out & in perfect cond. $800 for both stations. 516-728-0390.

PARTS—used, reconditioned; large inventory, Johnson, Evinrude, OMC Sterndrive. Lower units, housings, blocks, starters, power packs, props. KELLY'S MARINE SALVAGE, 516-265-5218, Evenings.

BOAT TRAILERS FOR RENT: Single & Tandem Axle. Daily, weekly, monthly rates. Temporary & permanent hitches for sale or rent. BARN TRAILER SERVICE, 57-06 B'way, Woodside, NY. 212-426-7039.

BOAT TRAILER REPAIR. Complete w/all new galvanized parts. FAZIO MFG., INC., 1121-16 Lincoln Av., Holbrook, NY 11741. 516-563-2263.

Continued On Next Page

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BOAT TRAILERS: E/Z Loader brand. Sales; service hitches. Glen Head. Days: 516-676-5313.

HUBBEL 50' 30 Amp Cord-$50. 516-661-9363.

COMPLETE your winterizing process by protecting exposed parts. After removing your Mercruiser O/D for winter storage. This unqiue protective cover & gasket will seat out all dirt, grit & rain. Trim cylinder support bar shown in photo optional. Send $19.95 for cover & gasket. For support bar add $2.50 to: ROSATO'S MARINE, 37 Beach Av., Copiague, NY 11726. 516-842-2030. NY res. add tax plus shppg. $1.25.

Terrific Buy! Winter canvas cover for 33' Egg Harbor. Used one winter. Like new. $350. Days: 516-731-0424.

AUTO PILOT Cetec, Benmar Course Setter 210 auto pilot. Complete for Hydraulic steering; also incl. Benmar Course Keeper Loran Interface. Used one season. Sacrifice. $1850. Mon-Fri, 8-5: 914-948-7349. Ask for Tony.

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DALE CLEMENS Custom Rod Bldg. Supplies exclusively at LINDENHURST BAIT & TACKLE. Extra 10% discount w/Ad. 226-9030.

130# IGFA Rod, Aftco Rollers, bent aluminum butt, custom wrap. New-$295. KEN MICA, 516-698-5820.

FOR SALE: Penn 750SS Spinning Reel-$60. Excl. cond. Prices incl. spare spool, original box & 2 tubes of lube. Can ship UPS. 203-572-0564.

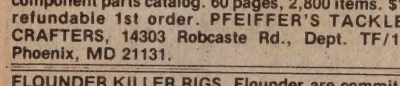
CUSTOM FISHING RODS built; rods repaired, guides re-wrapped. We build rods to match the reel & fish! Eves: 516-794-7299/1992.

LARGEST ROD BUILDING & LURE BUILDING component parts catalog. 60 pages, 2,800 items. $1 refundable 1st order. PFEIFFER'S TACKLE CRAFTERS, 14303 Robcaste Rd., Dept. TF/1, Phoenix, MD 21131.

FLOUNDER KILLER RIGS. Flounder are committing suicide on this famous 3-hook rig specially designed for the "meat fisherman." Special design & construction keeps tangles at a minimum. All hand-made finest quality material. 3 completely tied rigs for $3.90. Send check or M.O. to: P. MILLER, 150 Babylon Tpke, Merrick, NY 11566. our 12th year.

DEADLY FLOUNDER RIGS
Tangle-free, tandem tied w/special stand-off knot. Used by sharpies. Sprout hooks for more hook-ups. 3/$3.75 incl. p/h. BILL SMITH, 158 Vermont Av., Bay Shore, NY 11706.

OUTRIGGERS, Rockaway double spreader 34' Outriggers, compl. w/all hardware. $800. 914-948-7349, Mon-Fri, 8-5. Ask for Tony.



FREE: REDGILL DROPPER LURE
Worth $2.25. Send $1 for our '84 catalog full of reels & tackle at Wholesale prices. Also we'll send back your dollar w/first order. SONSHINE TACKLE CO., 34 Lidge Dr., Farmingville, NY 11738.

2 Custom Built heavy rods, roller guides, gimbal butts, w/Penn 9/0 reels. $150 ea. Flying gaff-$50; Vector. Asking $100. 516-422-1015 after 6PM.

74" Glass Rod; 5 stainless rollers; 4/0 Penn reel; 3.8 Grumman 2 pr. oars; nylon line, pulleys, trolling sockets. Woolrich outfit. 298-5282.

EDELMAN'S—EDEN'S—EDELMAN'S—Huge inventory ... best prices. 7 Days. See add Page 2.

COLLECTORS: We have some giant Pikie Lures, Pt. Judith Atoms, Pflueger; assorted Creek Chubs. 516-754-9276.

Custom Spinning Rod'. Med. action w/650 SS Pen reel. Used 4 times. Cost $160; sell $80. 516-826-2173.

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LIVE EELS
Available to retailers fishermen at wholesale prices. $1 per lb.; 10 minimum. Stock up now for fall bass run. 516-3563.

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MARINE MECHANIC Experienced Class A mechanic w/knowledge of O & O/B, Mercruiser, Mercury O/B & Evinrude O/B. Full time, year-round position. Full benefits plus profit sharing. Contact Sandy at SEORD MARINE, 516-783-2636.

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WALT'S WALKERS are over-the-shoe, boot or wader quality, heavy duty rubbers w/12 hardened steel cleats. A must for jetty & ice fishermen & rock stream fishing. Dealer inquiries invited. Avail. at Freddie's & Jonny's, Montauk Pt.; Beckmann's Tackle, Lynbrk. WALT'S WALKERS, P.O. Box 32, Manahawkin, NJ 08050. 609-597-5618.

A Bronze Fluke belt buckle. Hand cast & polished. Great Christmas gift. $19.95 + $2.50 p/h. NORTH JERSEY ART FOUNDRY, Suite 108, Box 350, 21 Interstate Shopping Center, Ramsey, NJ 07446.

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FULL COLOR REPRODUCTIONS 16x20. Mounted in beautifully handcrafted plank-type picture frames of pine w/rich oiled walnut finish. 12 reproductions to choose from: nautical, landscapes, religious; Last Supper; colonial, wildlife, seashore & more. Only $35 w/hardware. Ready to hang. Finish size 21x31. Call PICTURE-PERFECT, 516-348-7023 Eves.

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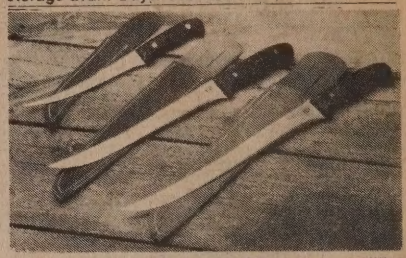
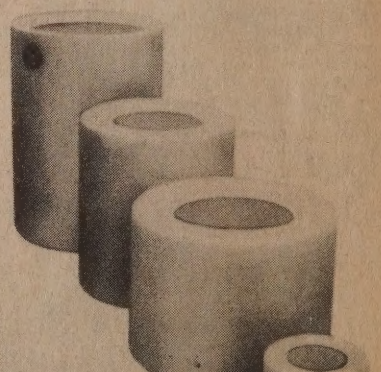
DOCK SPACE—Private home Woodcleft Canal, Freeport. Up to 14' beam-$500 season. Winter wet storage avail. Days: 379-1511.



FILLET KNIVES FOR CHRISTMAS! each fillet knife is 100% handmade by a custom knifemaker in U.S. Blade steel is #1095 carbon spring steel, not stainless, Rockwell 55-57c, which will take & keep an edge that till now you thought was impossible. Top of every blade has a razor sharp saw, approx. 2", for bone cutting, etc. Has safety grip Pakkawood handle & handcrafted heavy leather sheath. A superior product the result of 1-yr. of design research & field testing by expert sport & commercial fisherman. Act now; very limited handmade production. Order from exclusive distributor. 7" blade-$23.95; 10" blade-$26.95; 12" blade-$29.95 + $2.50 for shipping. No C.O.D.s. For credit card orders, same day shipment, call toll free 1-800-247-2511. In NYS, 516-546-1495 or mail orders to: MORTY THE KNIFE MAN, Box 7, Little Neck, NY 11363. NY residents add sales tax.

FREE DEER BUTCHERING
With every Head Mounted. Butchering only-$40. Double freezer wrap. New York's largest. WILDLIFE TAXIDERMY, 207 Rt. 109, W. Babylon. 516-422-1130.

FULLY LICENSED CAPTAIN—Water deliveries, boat/navigation instruction, charters and trips. 516-795-4498.



LIVE BAIT WELLS, pumps & accessories. For free brochure, send $.25 p/h. THE CADDY CO., 57 Bayonne Av, Dept. E, Central Islip, NY 11722; 516-234-0144.

WINTER STORAGE
Fiberglass boats $8 per ft. Engine, stern drive repairs, winterizations, I/Os X inboards, Mercruiser—OMC parts - service. Authorized Volvo Penta dealer. HARBOR MARINE CORP., 519 So. Great Neck Rd., Copiague, 516-789-8789.

SUMMER DOCKAGE & Winter Storage avail. Deep, wide, picturesque river in Copiague, 20 mins. to Frank & Dick's. Full service: Mercruiser, OMC & Volvo. Used boats for sale. Check us out. 519 MARINA, 842-1579. HARBOR MARINE CORP., 789-8789.

WANTED—Reliable netter to supply me with freshly caught sand eels & shiners. 281-4159. Delivered Suffolk area.

DOCKAGE—Winter Storage. Wet & Dry. Wide canal. 516-781-8173.

BEST COURSE TO YOUR LICENSE. Everything you need. $46. Guaranteed. NAVIGATION RULES book alone: $5. MARINE ASSOCIATES, P.O. Box 217N, Teaneck, NJ 07666; 201-837-8188.

NORCOLD Refrigerator AC/DC. Free-standing. Mod. DE-250. $150. 516-661-9363.

GOVERNMENT JOBS. $16,559-$50,553/year. Call 805-687-6000, Ext. R-1000.

GET BLASTED!
Mobile service available for hull pressure washing to remove barnacles & slime. Also wet sandblasting to remove bottom paint down to get coat or to remove rust from trailers. Done at your home or consenting marina. R&R CLEANING SYSTEMS, 516-563-2221. Low Rates.

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HOWARD BEACH WATERFRONT. Completely renovated: 3BR, 1½Bth, living room/fireplace, formal dining rm. Stained glass windows, Jacuzzi tub. Low taxes. $175,000. 212-738-2760.

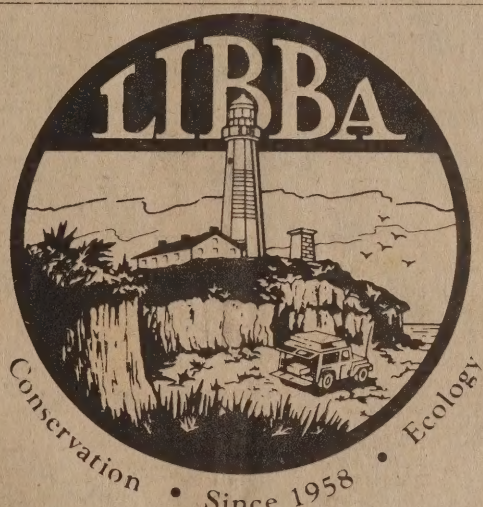
FLORIDA KEYS FISHING
Rent Duck Key furnished Condo. Sleeps 4. Walk to fishing boats. 516-589-7005.

DISTRESS SALE—3 Prime Lots in Silver Spring Shore, Fla. $20,000 for all 3. 516-433-4427.

LARGE BAIT & TACKLE SHOP: A-1 location established 25 yrs. Excl. income. Expanded parking area. Fully equip. & stocked. Owner ill; must sell at once. 201-721-0455.

L. I. B. B. A.

The Long Island Beach Buggy Association, Inc.



INVITES YOU TO HELP US:

- Preserve the Right of Access to Our Beaches
- Protect Our Precious Beaches and Marine Resources
- Provide Public Assistance During Emergencies

In addition to providing a recreational outlet for its members, L.I.B.B.A. has been responsible for developing emergency search and rescue plans for the outer beaches, established "Operation Christmas Tree", and is engaged in active, environmental education programs.

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Street: _____

City: _____ State: _____ Zip: _____

Phone: _____

MAKE CHECKS PAYABLE TO:
L.I.B.B.A., P.O. BOX 101, BAY PORT, N.Y. 11705

DUES $12.50
Benevolent Fund 1.00
TOTAL $13.50

SALE ENDS JANUARY 19th

GIFT CERTIFICATES AVAILABLE

SHANE'S MARINE HOLIDAY SALE!

ISLAND PARK
(Between Oceanside & Long Beach)
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Island Park, N.Y. 11558
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Complete Line of Si-Tex, King & Sea Hawk Electronics

The King 1022 Chart Recorder With Digital Display

AT 50% OFF!

A great recorder at a great price makes a great gift! King's 1022 Recorder is designed with all the quality features of full-sized recorders; yet this 4 inch unit weighs only 5 lbs. It has both printed & digital readouts. Six depth ranges to 600 ft. with a first range setting of 0-12 feet. Other outstanding features include: scale expansion, 3-tone printing, variable paper speed, bottom anywhere, and scale expansion. Complete with 200 KHz transom mount transducer.

List $599.00 **Sale $299.00**

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Sea Hawk 64
Unbeatable VHF Radio Value

The Sea Hawk 64 is the ideal boating companion with all U.S.A. channels. The 60 channel streamlined state-of-the-art VHF has 9 weather channels and instant access 16, 6, 22 and 68. A large bottom fired speaker with opening to the front offers improved audio clarity. Boasts maximum FCC allowable 25w output LCD channel display and reversible front panel. All in a completely watertight case. Dimensions 7¼" x 9" x 22".

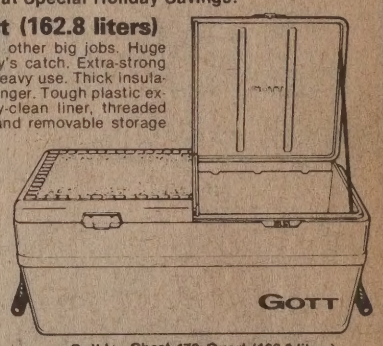
List $429.95 **Sale $199.95**

We've Got Gott at Special Holiday Savings!

Gott 172-Qt. Ice Chest (162.8 liters)

Designed for serious fishing, and other big jobs. Huge 172-quart capacity holds a full day's catch. Extra-strong bottom and corners to withstand heavy use. Thick insulation and two-part lid to hold cold longer. Tough plastic exterior won't rust or corrode. Easy-clean liner, threaded drain plug, rugged rope handles and removable storage bin. All white.
45½"L x 21½"W x 19¾"H.

List $382.00 **Sale $199.95**



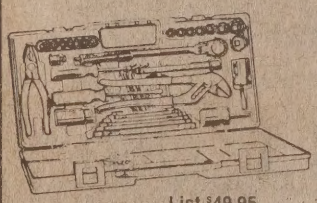
Gott Ice Chest 172-Quart (162.8 liters)

The Gott 120-Qt. Ice Chest (114 liters)

Good, practical size for a day's fishing. Built to withstand years of heavy use, with extra thick corners and bottom, heavy-duty hinges and latches, and rugged rope handles. Thick insulation and two-part lid helps keeps contents cold and fresh for hours. Tough plastic exterior won't rust or corrode. Other features include an easy-clean liner, threaded and recessed drain plug and removable storage bin. All white 38½"L x 18½"W x 17¾"H.

List $234.00 **Sale $129.95**

An Outstanding Marine Tool Kit Perfect for Use on Most Boats



41 of the most important SAE tools you will ever need, all housed in a compact molded carrying case. Kit includes sixteen sockets, flexible ratchet, 6½" linesman pliers, spark plug socket, ¼" drive speed handle, drive adapter, six open and box end wrenches, eight hex wrenches, three screw drivers and a 9½" groove joint pliers. Easy to stow and ready to go.

Model TK-40 List $49.95 **Sale $34.95**

"Polar Flex" Foam Insulated Gloves

3 fantastic models - great for clamming, cod-fishing, long-liners or any outdoor activity. Superior P.V.C. coating fully waterproof, acid-proof & fully resistant to solvents, abrasion & cold. Ensures warmth.

Knitwrist - $8.95 • 10" Gauntlet - $8.95
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Swift's 781 Rubber Coated Binoculars

The Swift 7 x 50 armored binoculars are our best sellers and with good reason! Their hard black rubber coating increases moisture resistance & durability. A great gift for boaters and non-boaters alike.

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Sperry TopSider Insulated Snug Harbor Boots

Famous TopSider blue boot. Built in foam insulation ankle high, felt insole cushion, hard rubber toe cap. Eleven inches high. Safety yellow trim. Exclusive Top-Sider anti-slip sole.

List $53.00 **Sale $43.95**

Shane's Special Holiday Price!

Our Best Selling Fishing Chair

Boatmen's folding chair is manufactured with the highest quality mildew-resistant marine vinyl. Complete with fishing gimbal & anodized aluminum legs and arms. This sturdy fishing chair will guarantee pleasure. Boatsmens 112E-G

List $201.00 **Sale $99.95**

Includes F.E.T.

Viking Boots By Helly Hansen

The commercial fisherman's boot, seen on docks and decks worldwide. Each heavy duty boot is made of natural rubber with comfortable linings. They feature non-skid soles and extra rubber reinforcement. Available in either the insulated or non-insulated models; both styles are 16" high & available in sizes 7-13.

Viking E371 **$39.95**

Viking E372 Non-Insulated **$28.95**